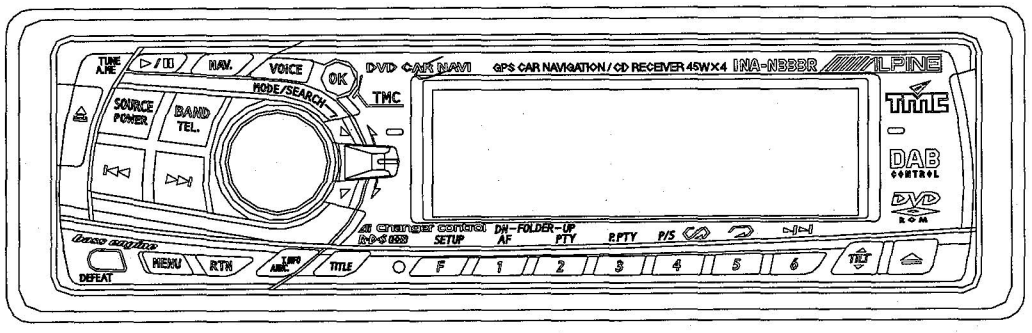
ALPINE

SERVICE MANUAL

GPS Car Navigation / CD Receiver

- Confidential -

"Schematic Diagram (ECU P.W.Board / ASSY,FPC SHEET SW) cannot use a reference function"



6/03-A
68E35650S

INA-N333R

<Cautions for Safe Repair Work>

The following cautions will prevent accidents in the workplace and will ensure safe products.
*The symbols indicate caution is needed to prevent injuries and damage to property.
The symbols and their meanings follow.

⚠ **Warning**	If you ignore this symbol and handle the product incorrectly or unsafely, serious injury or death may result.
⚠ **Caution**	If you ignore this symbol and handle the product incorrectly or unsafely, injury or only material damage may result.

*The following symbols indicate two levels of cautions.

⚠	When you see this symbol, you have to be very careful.
❗	When you see this symbol, you have to follow the instructions there.

⚠ Warning

⚠ **Do not look squarely into the laser light coming from the pickup.** You may loose you sight.	❗ **Fuse Caution** Always use a designated fuse. Use of an incorrect fuse may result in a fire.

⚠ Caution

⚠ **Do not allow wiring to be caught in the screw/chassis.** If wiring is caught in the screw/chassis, it may cause a short circuit, resulting in a fire.	❗ **Battery Caution** Use the designated battery. Confirm the correct polarity and seat of the battery. An incorrect battery or an improperly connected or seated battery may result in a fire.
⚠ **High Temperature Caution** Touching the heat sink may cause severe burns.	❗ **Designated Parts Caution** Look up the part list and ensure that only designated parts are used to prevent problems or accidents.
⚠ **Reverse Power Supply Connections or Misconnections Caution** Reverse power supply connections or misconnections may cause ignition problems and smoke may result.	❗ **Wiring Caution** Ensure that the wiring is correct when rewiring to prevent problems with ignition/breakdown.
⚠ **Soldering Caution** Hot solder from solder splash may cause severe burns.	❗ **Wear Gloves** Wear gloves to prevent electrical shocks or injury from the end face of the metal.

⚠ **For the FDA laser standard, the following CAUTION label is stuck on each product.**
Please be careful for repair.

CAUTION-Laser radiation when open, DO NOT STARE INTO BEAM

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Exploded View (DVD Deck Mechanism) (DV33M010)

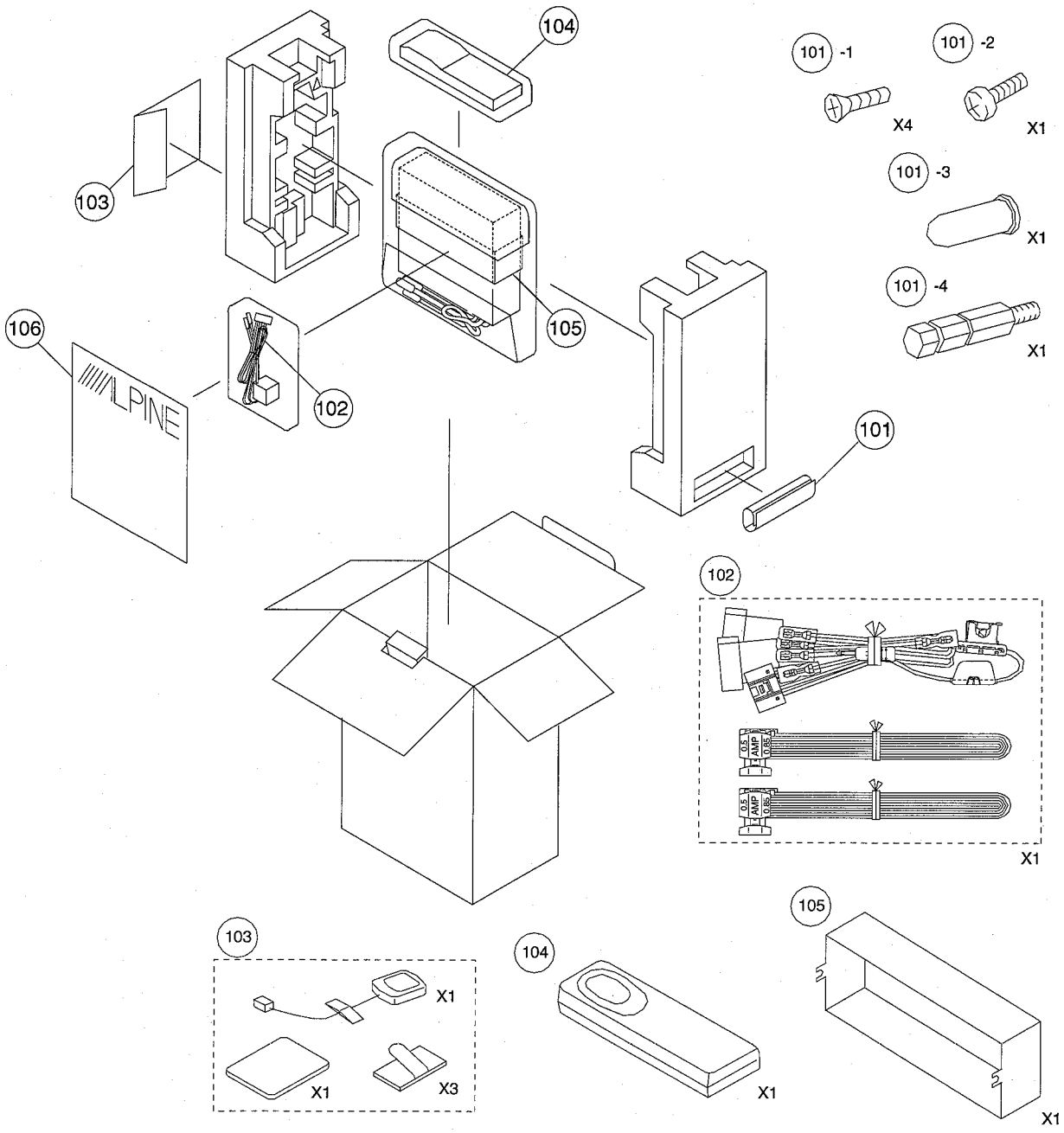
NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

Symbol No.	Part No.	Description
101-1	03S60820Y16	SCR,MCH 5X8 ZN A
101-2	03S60824Y01	SCR,WAV 1.7X4 ZN A
101-3	36A11113W01	CAP,RUBBER(A)
101-4	03A60836Y01	SCR,CUS 5X7 ZN A
102	01T15359Y14	ASSY,ISO CONN N033RS
103	01T85385W04	GPS ANT,GPA-CG2C1
104	15D50063Y01	CARRYING,CASE
105	15D50406W02	CASE,INNER
106	68P50520Y74	O/M AOEU

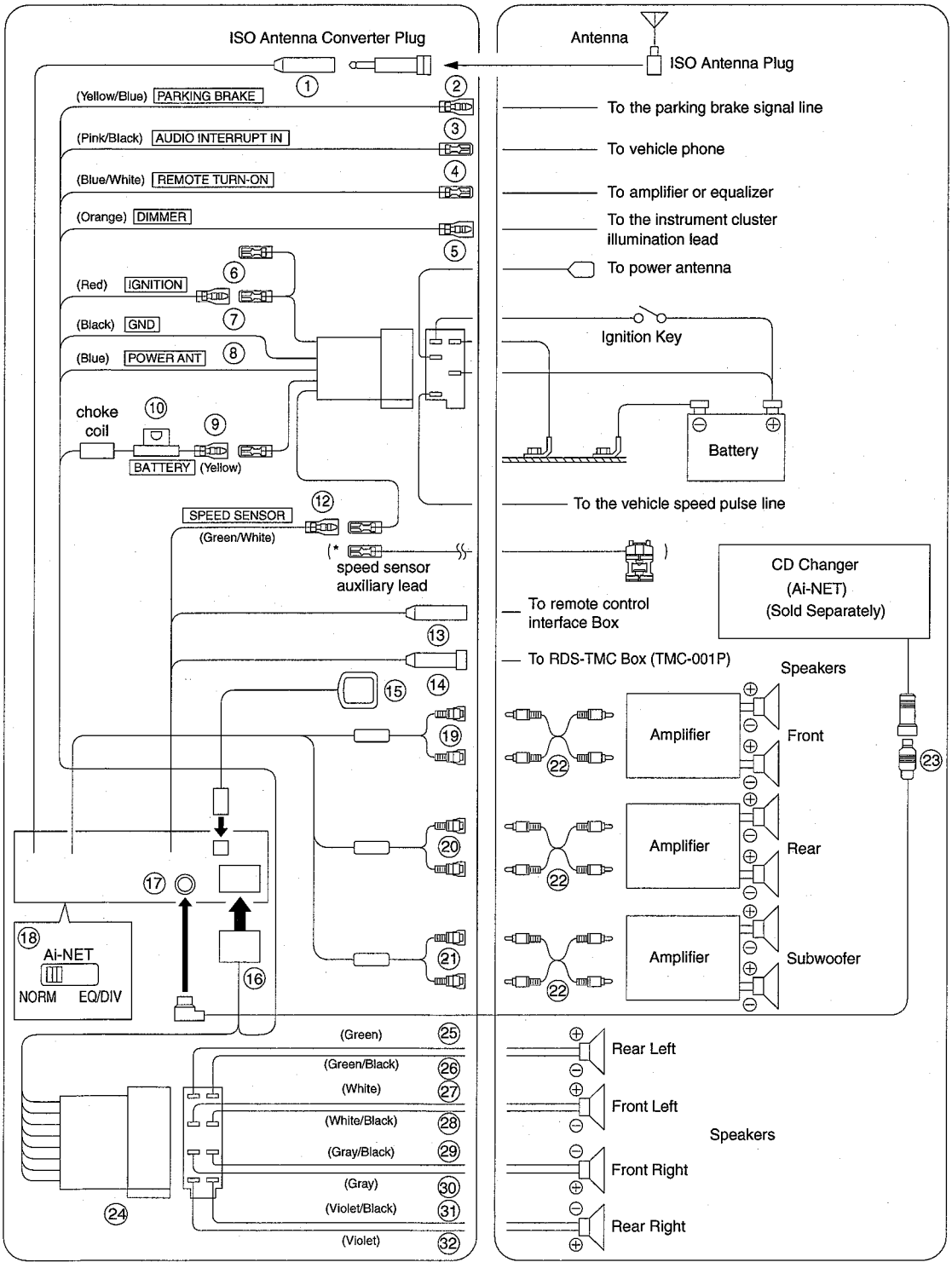
Symbol No.	Part No.	Description

Packing Method View



System Connection

<Connection>



① **Antenna Receptacle**
Connect to the supplied ISO antenna converter plug.

② **Parking Brake Lead (Yellow/Blue)**
Connect this lead to the power supply side of the parking brake switch to transmit the parking brake status signals to the INA-N333R.

③ **Audio Interrupt In Lead (Pink/Black)**
Connect this lead to the Audio Interface output of a cellular phone which provides ground shorting when a call is received.

④ **RemoteTurn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.

⑤ **Dimmer Lead (Orange)**
This lead may be connected to the vehicle's instrument cluster illumination lead. This will enable the vehicle's dimmer control to dim the backlighting of the unit.

⑥ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.

⑦ **Ground Lead (Black)**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

⑧ **Power Antenna Lead (Blue)**
Connect this lead to the +B terminal of your power antenna, if applicable.

NOTE
This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier or a signal processor, etc.

⑨ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.

⑩ **Fuse Holder (10A)**

⑪ **ISO Power Supply Connector**

⑫ **Speed Sensor (Green/White)**
Connect to VSS (Digital or Analog 0V - 3V)
Improper connection of the speed pulse line may cause important safety features of the vehicle to fail (such as the brakes or air bags). Such failures may result in an accident and loss of life. We strongly recommend that the installation be perfomed by a trained, authorized Alpine dealer.

* If the connectors of the vehicle are not ISO type or they are ISO type but not equipped with the speed sensor terminal on the vehicle side ISO connector, use the supplied speed sensor auxiliary cable to connect to the speed sensor cable of the vehicle.

⑬ **Remote Control Interface Connector**
To remote control interface box.

⑭ **To RDS-TMC Receiver (Optional)**

NOTE
To connect an Alpine RDS-TMC Receiver, consult your Alpine dealer.

⑮ **GPS Antenna (Included)**

⑯ **Power Supply Connector**

⑰ **Ai-NET Connector**
Connect this to the output or input connector of other product (CD changer, Equalizer, etc.) equipped with Ai-NET.

⑱ **System Switch**
When connecting a processor using Ai-NET, place this switch in the EQ/DIV position. When no device is connected, leave the switch in the NORM position.

NOTE
Be sure to turn the power off to the unit before changing the switch position.

⑲ **Front Output RCA Connectors**
RED is right and WHITE is left.

⑳ **Rear Output RCA Connectors**
RED is right and WHITE is left.

㉑ **Subwoofer Output RCA Connectors**
RED is right and WHITE is left.

㉒ **RCA Extension Cable (Sold Separately)**

㉓ **Ai-NET Cable (Included with CD Changer)**

㉔ **ISO Connector (Speaker Output)**

㉕ **Left Rear (+) Speaker Output Lead (Green)**

㉖ **Left Rear (–) Speaker Output Lead (Green/Black)**

㉗ **Left Front (+) Speaker Output Lead (White)**

㉘ **Left Front (–) Speaker Output Lead (White/Black)**

㉙ **Right Front (–) Speaker Output Lead (Gray/Black)**

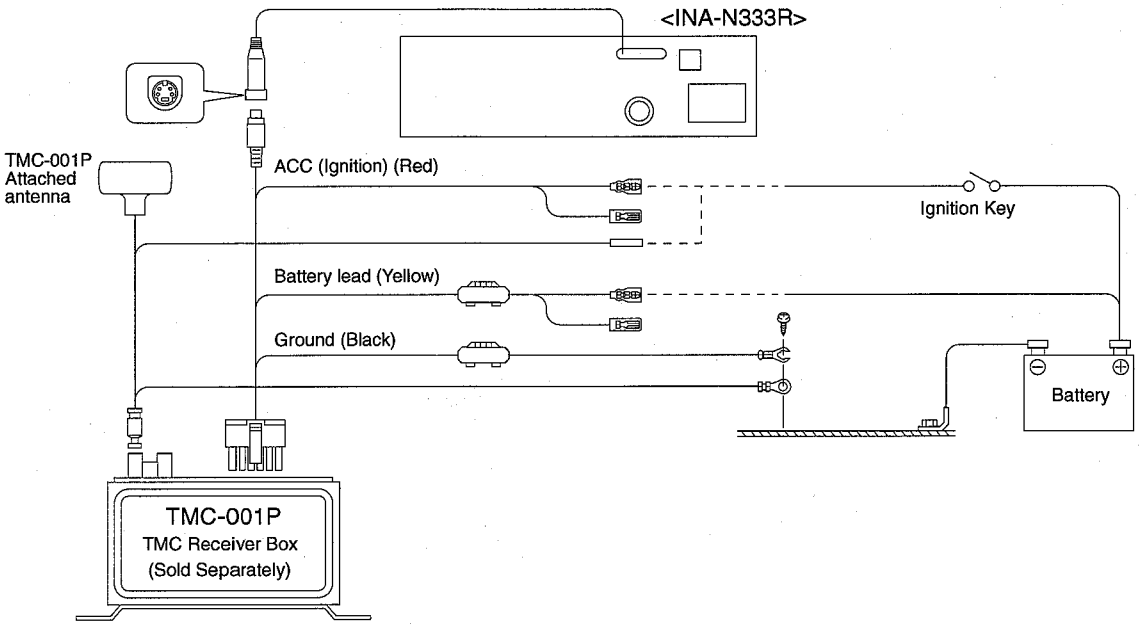
㉚ **Right Front (+) Speaker Output Lead (Gray)**

㉛ **Right Rear (–) Speaker Output Lead (Violet/Black)**

㉜ **Right Rear (+) Speaker Output Lead (Violet)**

To prevent external noise from entering the audio system.
- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

<Connection with optional RDS-TMC Receiver Box TMC-001P>



For further information about the connection and installation of TMC-001P, refer to the owner's manual of TMC-001P.

NOTE

* Matching the optional Navigation Disc (NVD-T003) with the RDS-TMC Receiver Box (TMC-001P) may cause function failure to part of the built-in TMC tuner.

Specifications

<FM RADIO>

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5 to 108MHz
Usable Sensitivity (Mono, 30dB S/N, at 98.1MHz)	20.2dBf
-3dB Limiting Sensitivity (at 98.1MHz)	21.2dBf
Residual Noise (Ref. 400Hz (narrow), at 98.1MHz)	28±10dB
S/N Ratio (at 98.1MHz)	Stereo : 55dB
	Mono : 58dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dBu, at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB
	10kHz : -10±3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	36.2dBf

<MW RADIO>

Intermediate Frequency	1st. : 10.7MHz
	2nd. : 450kHz
Frequency Range	531 to 1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	36dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	50dB
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3±4dB
	2.5kHz : -5+3, -5dB

<LW RADIO>

Intermediate Frequency	1st. : 10.7MHz
	2nd. : 450kHz
Frequency Range	153 to 281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	42dB
S/N Ratio (at 216kHz)	44dB
Image Rejection (at 270kHz)	50dB
IF Rejection (at 162kHz)	60dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3±4dB
	2.5kHz : -5+3, -5dB

<CD SECTION>

System ..... Optical (Compact Disc System)
Channel Balance (TCD-782, 1kHz) ..... 0±3dB
Distortion (TCD-782, 1kHz) 0.1%
Frequency Response (TCD-782, Ref. 997Hz) ..... 17Hz : 0±3dB
127Hz : 0±2dB
10.007kHz : 0±2dB
19.997kHz : 0±4dB
S/N Ratio (TCD-782) 80dB
Separation (TCD-782, 1kHz) 55dB
De-Emphasis (TCD-782, Ref. 1kHz) ..... 4kHz : -20±3dB
16kHz : -20±3dB

<Pickup>

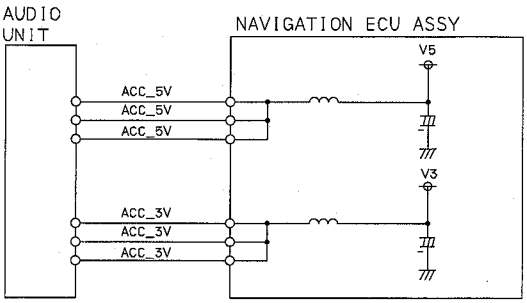
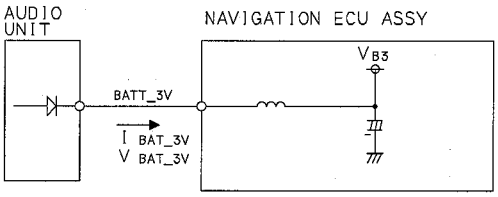
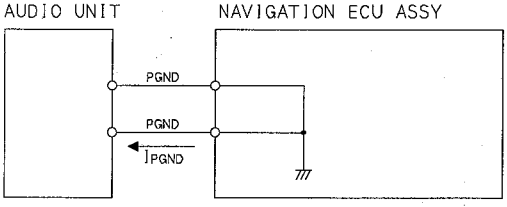
Wave Length 655nm
Laser Power ..... CLASS II

<GENERAL>

Power Output (TCD-782 (Track No. 2, 1kHz), T.H.D. 10%) /Impedance 18W/ch/4ohm
Pre Output (TCD-782 (0dB, 1kHz), Ref. FRONT, T.H.D. 1%) /Impedance ..... 2V±2.5dBV/ch/10kohm
Sub-Woofer Output Level (TCD-782 (0dB, 1kHz), STEP-0, Ref. FRONT PRE-OUT) ..... -15±3dB
Navigation Voice Output Level (1kHz, -6dB) ..... 800±150mVrms
Back-Up Current 5mA
Dimensions (W x H x D) ..... Chassis : 178 x 50 x 158mm
Nose (at Closed) : 188 x 58 x 24.5mm
Nose (at Full Opened) : 188 x 58 x 52mm
Weight 2kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

I/O Interface

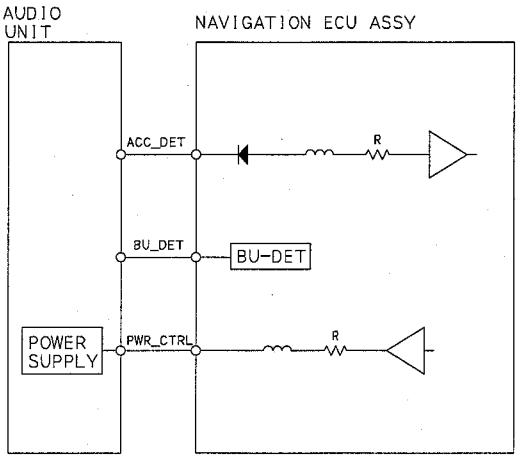
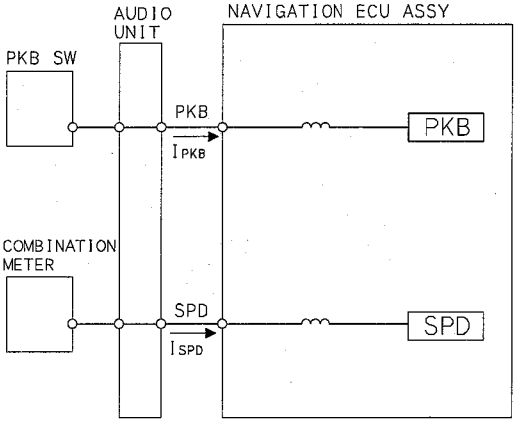
NO.	Description	Interface Specification	Note
1	POWER SUPPLY		
1-1	POWER SUPPLY [ACC_5V, ACC_3V]		
1-2	BUCK UP POWER SUPPLY [BATT_3V]		When it is +B supplied. It is outputted from +B_3V. When it is +B cut. It is outputted from the Power supply.
1-3	SYSTEM POWER SUPPLY GND [PGND]		* Excessive electric current in capacitor charge is removed.

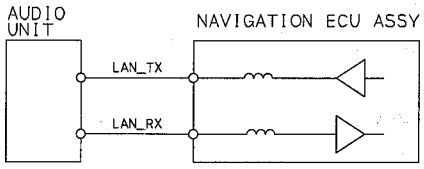
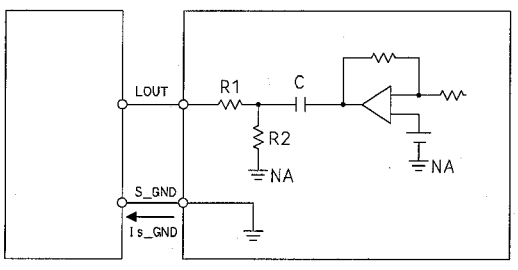
Pin Name	Signal Definition	Electric Specifications	NOTE
ACC_5V	System 5 V ACC POWER SUPPLY	Voltage precision :5.0±0.25 (V) Electric current capacity :500 mA MAX. :100 mA typ Ripple Level:50mV MAX.	Power supply: ACC_5V→ACC_3V
ACC_3V	System 3 V ACC POWER SUPPLY	Voltage precision :3.3±0.132 (V) Electric current capacity :1200 mA MAX. :500 mA typ Ripple Level:30mV MAX.	

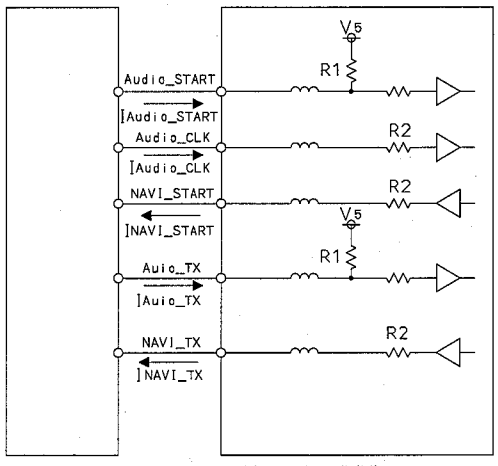
(1) Electric current capacity
·I BAT_3V: 2 mA MAX. : at Buck Up

(2) Voltage precision
·V BAT_3V: $3.2^{+0.1}_{-0.2}$ (V)

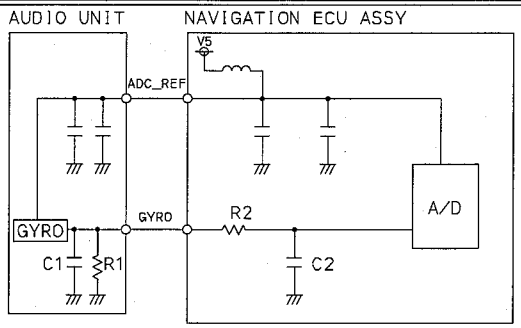
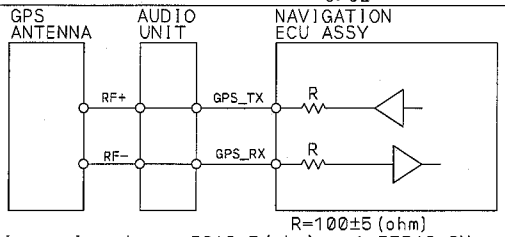
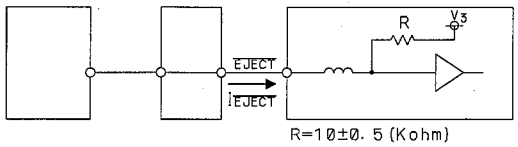
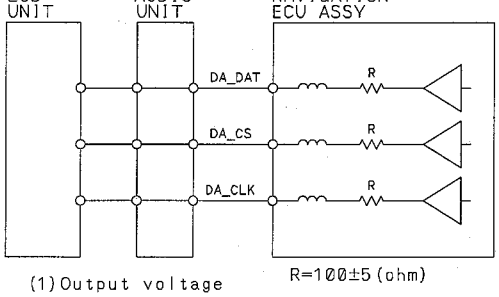
(1) *GND electric current
IPGND: 3.0 A MAX. (When DVD connection)

NO.	Description	Interface Specification	Note
2	POWER SUPPLY CONTROL ·ACC POWER SUPPLY DETECTION SIGNAL [ACC_DET] ·BUCK UP POWER SUPPLY DETECTION SIGNAL [BU_DET] ·POWER CONTROL SIGNAL [PWR_CTRL]	 R=1±0.05(kohm) (1) Input Voltage1 (ACC_DET) ·L Level:0.5 V MAX. ·H Level:4.3 V MIN. (2) Input Voltage2 (BU_DET) ·L Level:0.5 V MAX. ·H Level:4.3 V MIN. (3) Output Voltage (PWR_CTRL) ·L Level:0.3 V MAX. ·H Level:4.5 V MIN. (4) Signal Definition (ACC_DET, BU_DET, PWR_CTRL) Signal Name / Level / Signal Definition ACC_DET: L — ACC+B more than 6.5V; H — ACC+B less than 6.5V BU_DET: L — When +B is supplied.; H — When +B is cut. PWR_CTRL: L — POWER OFF condition; H — POWER ON condition	
3 3-1 3-2	VEHICLE I/F PARKING SWITCH SIGNAL [PKB] SPEED SIGNAL [SPD]	 (1) Input electric current1 (PKB) :−5 mA MAX. (2) Input Electric Current2 (SPD) :−1.5 mA MAX. (3) Input Voltage (PKB) ·L Level:3 V MAX. (4) Leakage resistance (PKB, SPD) :100 Kohm MIN. (5) Allowable chartering time (SPD) :0.2 ms MAX. (6) Input pulse number (SPD) :10.6X4 Hz at 60 km/h (7) Signal definition (PKB) Signal Name / Level / Signal Definition PKB: L — Parking break switch ON; H — Parking break switch OFF	

NO.	Description	Interface Specification	Note
4	RDS I/F ·LAN SERIAL TRANSMISSION DATA [LAN_TX] ·LAN SERIAL RECEIVING DATA [LAN_RX]	 (1) Output voltage (LAN_TX) ·L Level : 0.3 V MAX. ·H Level : 4.5 V MIN. (2) Input voltage (LAN_RX) ·L Level : 0.5 V MAX. ·H Level : 4.3 V MIN. (3) Signal definition (LAN_TX, LAN_RX) Signal Name / Level / Signal Definition LAN_TX: L Logic0; H Logic1 LAN_RX: L Logic0; H Logic1	
5	NAVI VOICE ·NAVIGATION VOICE Lch OUTPUT [LOUT] ·SYSTEM SIGNAL GND [SGND]	 R1=56±2.8 (ohm) R2=22±1.1 (Kohm) C=3.3±0.66 (uF) (1) Output voltage (LOUT) ·Full scale output voltage : 0.7 Vrms±1 dB at LR=10 Kohm	

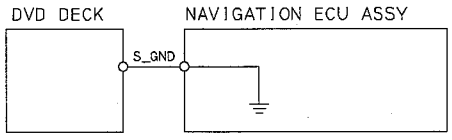
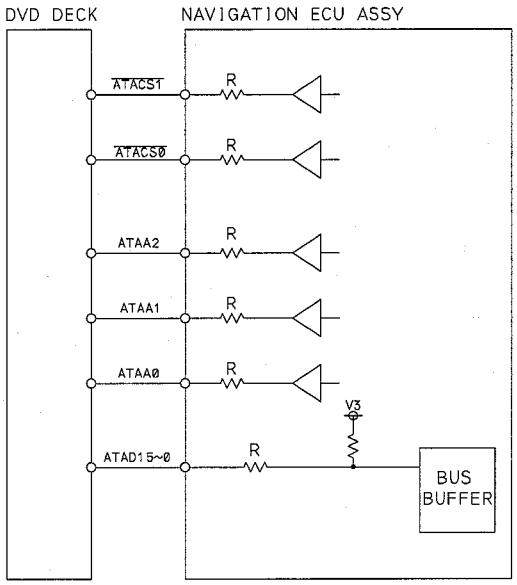
NO.	Description	Interface Specification	Note
6	BETWEEN NAVI AND AUDIO I/F ·AUDIO COMMUNICATION START SIGNAL [Audio_START] ·NAVI COMMUNICATION START SIGNAL [NAVI_START] ·AUDIO u-COM SERIAL CLOCK [Audio_CLK] ·NAVI TRANSMISSION DATA [NAVI_TX] ·AUDIO TRANSMISSION DATA [Audio_TX]	AUDIO UNIT — NAVIGATION ECU ASSY  V_5 =5±0.25 (V) R_1 =100±5 (Kohm) R_2 =1±0.05 (Kohm) (1) Input electric current1 (Audio_START, Audio_CLK, Audio_TX) :−100 uA MAX. (2) Input voltage (Audio_START, Audio_CLK, Audio_TX) ·L Level:1.3V MAX. (3) Output voltage (NAVI_START, NAVI_TX) ·L Level:0.4 V MAX. (Each electric current value)=−200 uA ·H Level:4.3 V MIN. (Each electric current value)=200 uA (4) Leakage resistance (Audio_START, Audio_CLK, Audio_TX) :1 Mohm MIN. (5) Signal definition (Audio_START, NAVI_START, Audio_CLK, NAVI_TX, Audio_TX)	

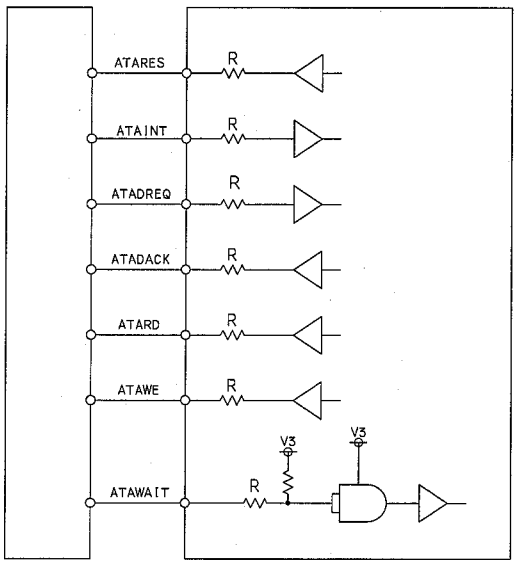
Signal Name	Level	Signal Definition
Audio_START	L	Except for mentioned below period
	H	At transmitting Audio data
NAVI_START	L	Except for mentioned below period
	H	At transmitting NAVI data
Audio_CLK	L→H	Serial data input timing
	H→L	Serial data output timing
NAVI_TX	L	Logic0
	H	Logic1
Audio_TX	L	Logic0
	H	Logic1

NO.	Description	Interface Specification	Note
7	GYRO I/F ·GYRO SENSOR SIGNAL [GYRO] ·POWER SUPPLY FOR GYRO [ADC_REF]	 R1=100±5 (Kohm) C1=00. 1±0. 001 (uF) V5=5±0. 25 (V) R2=100±5 (ohm) C2=0. $1^{+0.08}_{-0.02}$ (uF)	
8	GPS RECEIVER I/F ·GPS SERIAL TRANSMISSION DATA [GPS_TX, GPS_RX]	 R=100±5 (ohm) Input Impedance: 50±2. 5 (ohm) at 1. 57542 GHz	
9 9-1	DISPLAY I/F ·EJECT SWITCH SIGNAL [EJECT]	 R=10±0. 5 (Kohm) (1) Input voltage (EJECT) ·L Level: 0. 8 V MAX. ·H Level: 2. 0 V MIN. (2) Signal definition (EJECT)	
9-2	·DAC DATA FOR PICTURE QUALITY ADJUSTMENT (FOR DEBUG) [DA_DAT] ·DAC CHIP SELECT FOR PICTURE QUALITY ADJUSTMENT [DA_CS] ·DAC CLOCK FOR PICTURE QUALITY ADJUSTMENT (FOR DEBUG) [DA_CLK]	 R=100±5 (ohm) (1) Output voltage (DA_DAT, DA_CS, DA_CLK) ·L Level: 0. 3 V MAX. ·H Level: 4. 5 V MIN. (2) Signal definition (DA_DAT, DA_CS, DA_CLK)	

Signal Name	Level	Signal Definition
EJECT	L	EJECT movement
	H	Usually condition

Signal Name	Level	Signal Definition
DA_DAT	L	Logic0
	H	Logic1
DA_CS	L→H	Transmission possible
	H→L	Transmission end
DA_CLK	L→H	Serial data input timing
	H→L	Serial data output timing

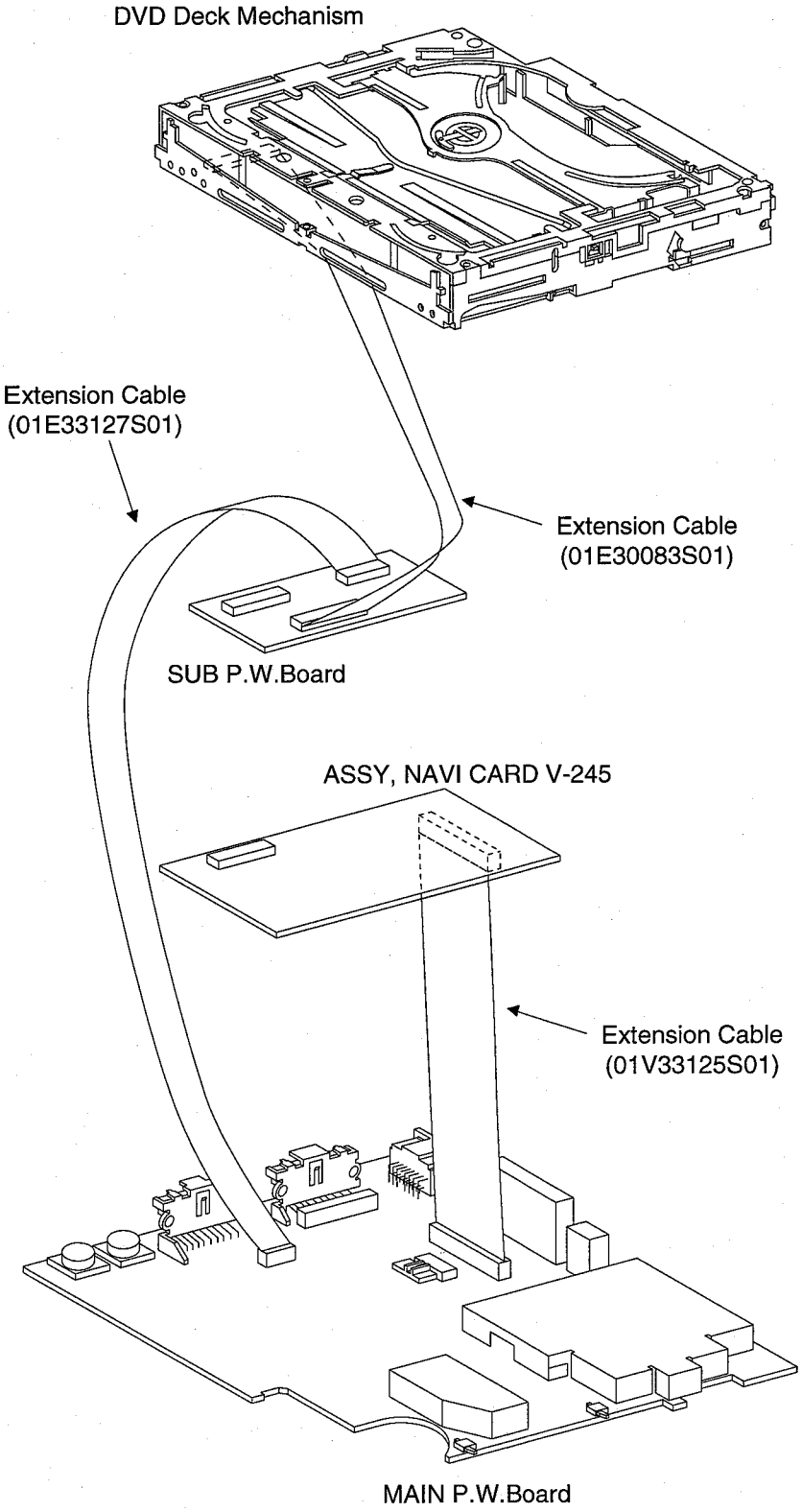
NO.	Description	Interface Specification	Note
10	DVD DECK I/F		
10-1	GND [SGND]		
10-2	・CHIP SELECT SIGNAL [ATACS1~0] ・ADDRESS SIGNAL OUTPUT [ATAA2~0] ・DVD DATA [ATAD15~0]	 R=100±5(ohm) (1) Output voltage1 (ATACS1~0, ATAA2~0) ・L Level : 0.3 V MAX. ・H Level : 4.5 V MIN. (2) Output voltage2 (ATAD15~0) ・L Level : 0.5 V MAX. ・H Level : 2.5 V MIN. (3) Input voltage (ATAD15~0) ・L Level : 0.7 V MAX. ・H Level : 2.2 V MIN. (4) Signal definition (ATACS1~0, ATAA2~0, ATAD15~0) | Signal Name	Level	Signal Definition
---	---	---
ATACS1~0	L	Logic0
	H	Logic1
ATAA2~0	L	Logic0
	H	Logic1
ATAD15~0	L	Logic0
	H	Logic1	

NO.	Description	Interface Specification	Note
10-3	·RESET SIGNAL OUTPUT [ATARES] ·INTERRUPT SIGNAL INPUT [ATAINT] ·DMA REQUEST SIGNAL INPUT [ATADREQ] ·DMA ACK SIGNAL OUTPUT [ATADACK] ·ATA WAIT SIGNAL INPUT [ATAWAIT] ·READ SIGNAL OUTPUT [ATARD] ·WRITE SIGNAL OUTPUT [ATAWE]	DVD DECK NAVIGATION ECU ASSY  R=100±5(ohm) (1) Input voltage1 (ATAINT, ATADREQ) ·L Level:0.5 V MAX. ·H Level:4.3 V MIN. (2) Intput voltage2 (ATAWAIT) ·L Level:0.9 V MAX. ·H Level:2.4 V MIN. (3) Output voltage1 (ATARES, ATADACK) ·L Level:0.3 V MAX. ·H Level:4.5 V MIN. (4) Output voltage2 (ATAWE, ATARD) ·L Level:0.4 MAX. ·H Level:2.4 MIN. (5) Signal definition (ATARES, ATAINT, ATADREQ, ATADACK, ATAWAIT, ATARD, ATAWE)	

Signal Name	Level	Signal Definition
ATARES	L	Reset period
	H	Except reset period
ATAINT	L	Usually condition
	H	Interrupt and occurs
ATADREQ	L	DMA request
	H	Usually condition
ATADACK	L	DMA answer
	H	Usually condition
ATAWAIT	L	Wait period
	H	Usually condition
ATARD	L	Read period
	H	Usually condition
ATAWE	L	Write period
	H	Usually condition

Extension Cable

* When repairing or measuring the voltage of this unit, connect with the Extension Cable as shown in below.

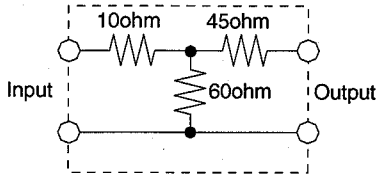


Adjustment Procedures

1. Tuner Adjustment

-1. FM SECTION

(1) Dummy Antenna Circuit



For 50 ohm FM Signal Generator Figure 1

(2) Connection

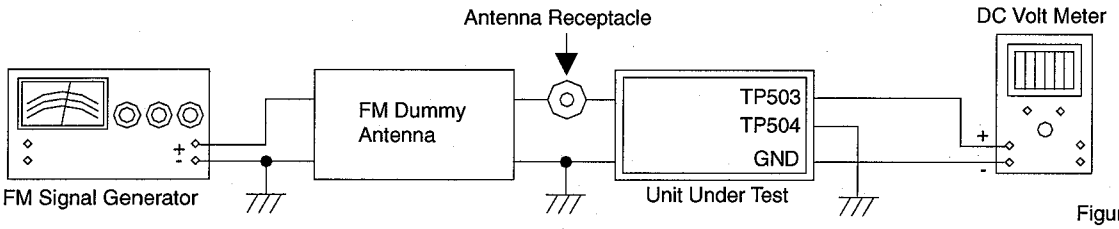


Figure 2

* only short-circuit at adjustment

(3) Control Settings

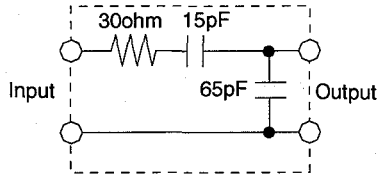
Fader Control	Center Position	Band Switch	FM
Balance Control	Center Position	Others	OFF
Treble Control	Center Position		
Bass Control	Center Position		

(4) Adjustment Procedures

Step	Description	Connection	Signal Generator	Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	Signal Meter Adjustment	Figure 2	90.1MHz, 26dBu (Mod. OFF)	90.1MHz	TP503 (3-A) TP504 (5-E)	Auto Adjustment : After setting up of Signal Generator, short GND and TP504. (SPEC) TP503 : 1.5±0.1V

-2. AM SECTION

(1) Dummy Antenna Circuit



For 50 ohm AM Signal Generator Figure 3

(2) Connection

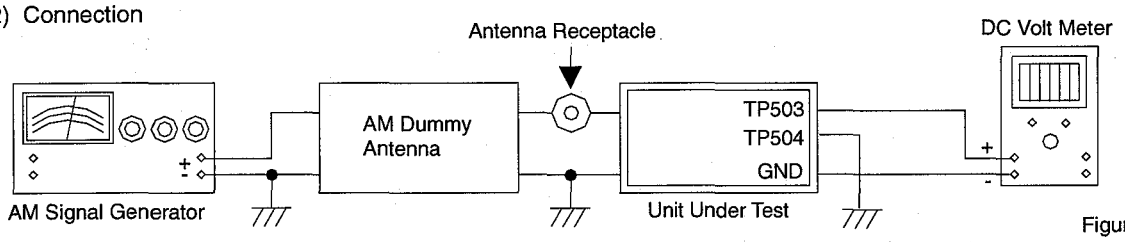


Figure 4

* only short-circuit at adjustment

(3) Control Settings

Fader Control	Center Position	Band Switch	MW/LW
Balance Control	Center Position	Others	OFF
Treble Control	Center Position		
Bass Control	Center Position		

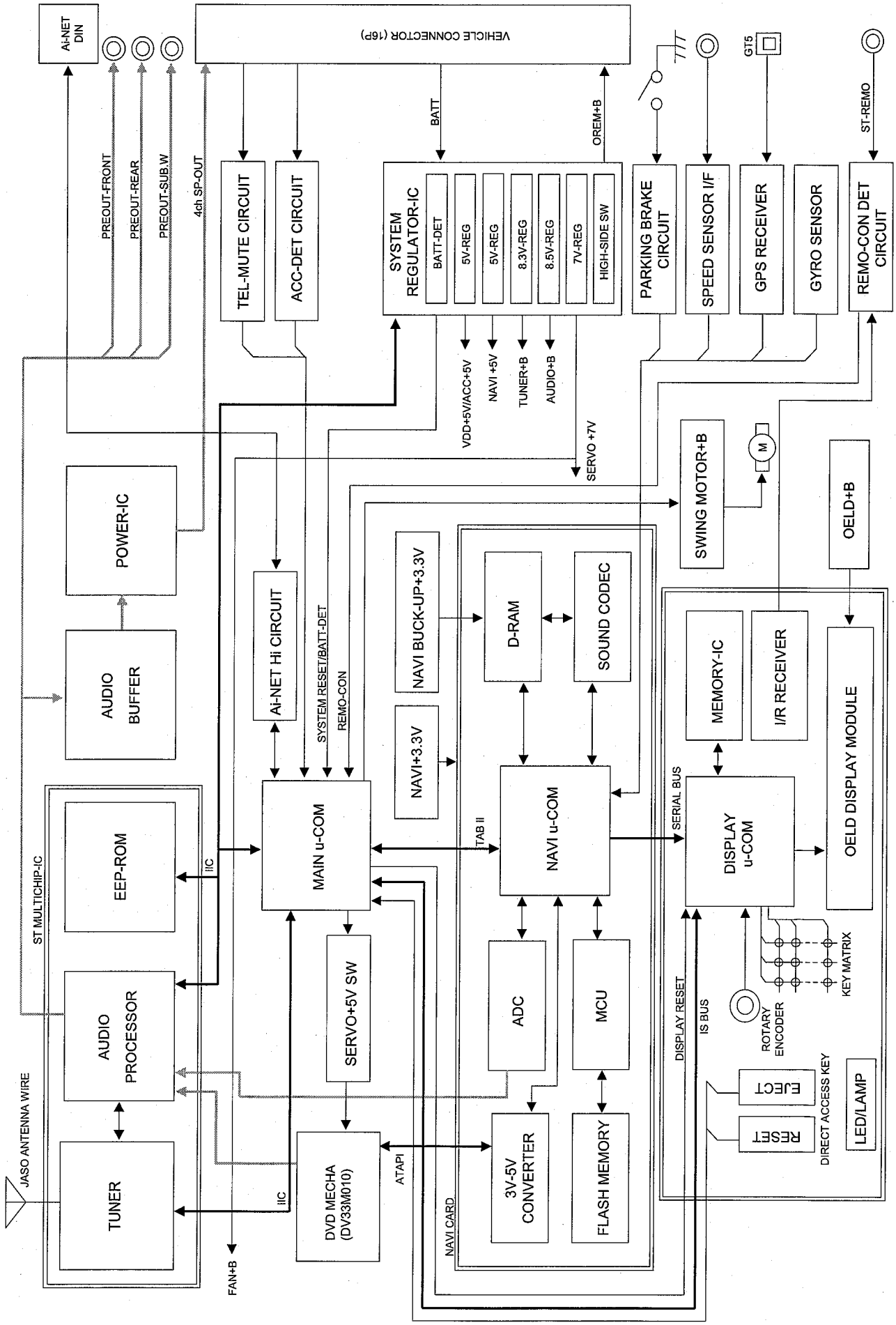
(4) Adjustment Procedures

Step	Description	Connection	Signal Generator	Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	MW Signal Meter Adjustment	Figure 4	999kHz, 30dBu (Mod. OFF)	999kHz	TP503 (3-A) TP504 (5-E)	Auto Adjustment : After setting up of Signal Generator, short GND and TP504. (SPEC) TP503 : 1.0±0.1V
2	LW Signal Meter Adjustment	Figure 4	216kHz, 30dBu (Mod. OFF)	216kHz	TP503 (3-A) TP504 (5-E)	Auto Adjustment : After setting up of Signal Generator, short GND and TP504. (SPEC) TP503 : 1.0±0.1V

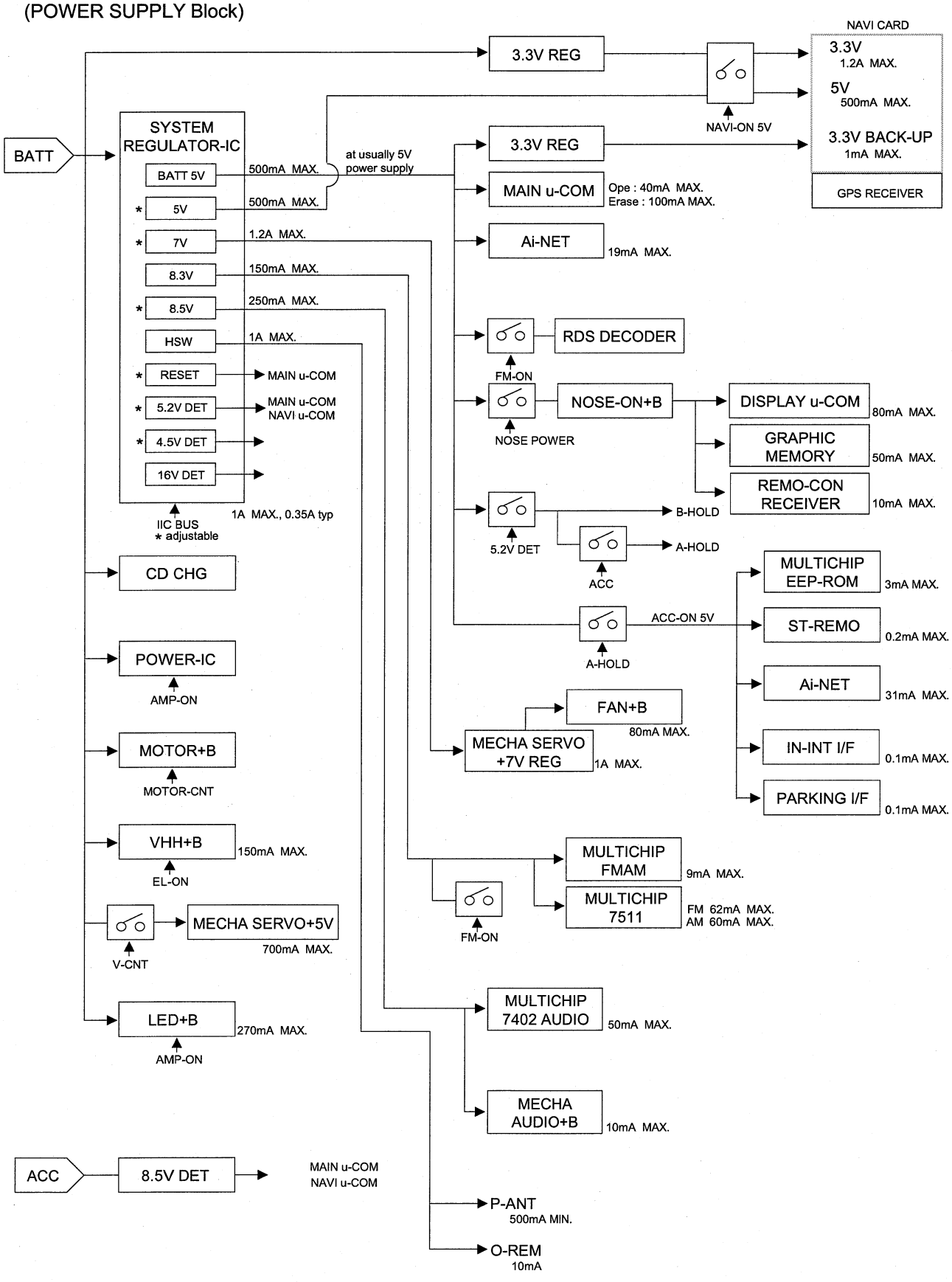
NOTE : For the Test Points, refer to the Parts Layout on P.W.Boards and Wiring Diagram.

Block Diagram

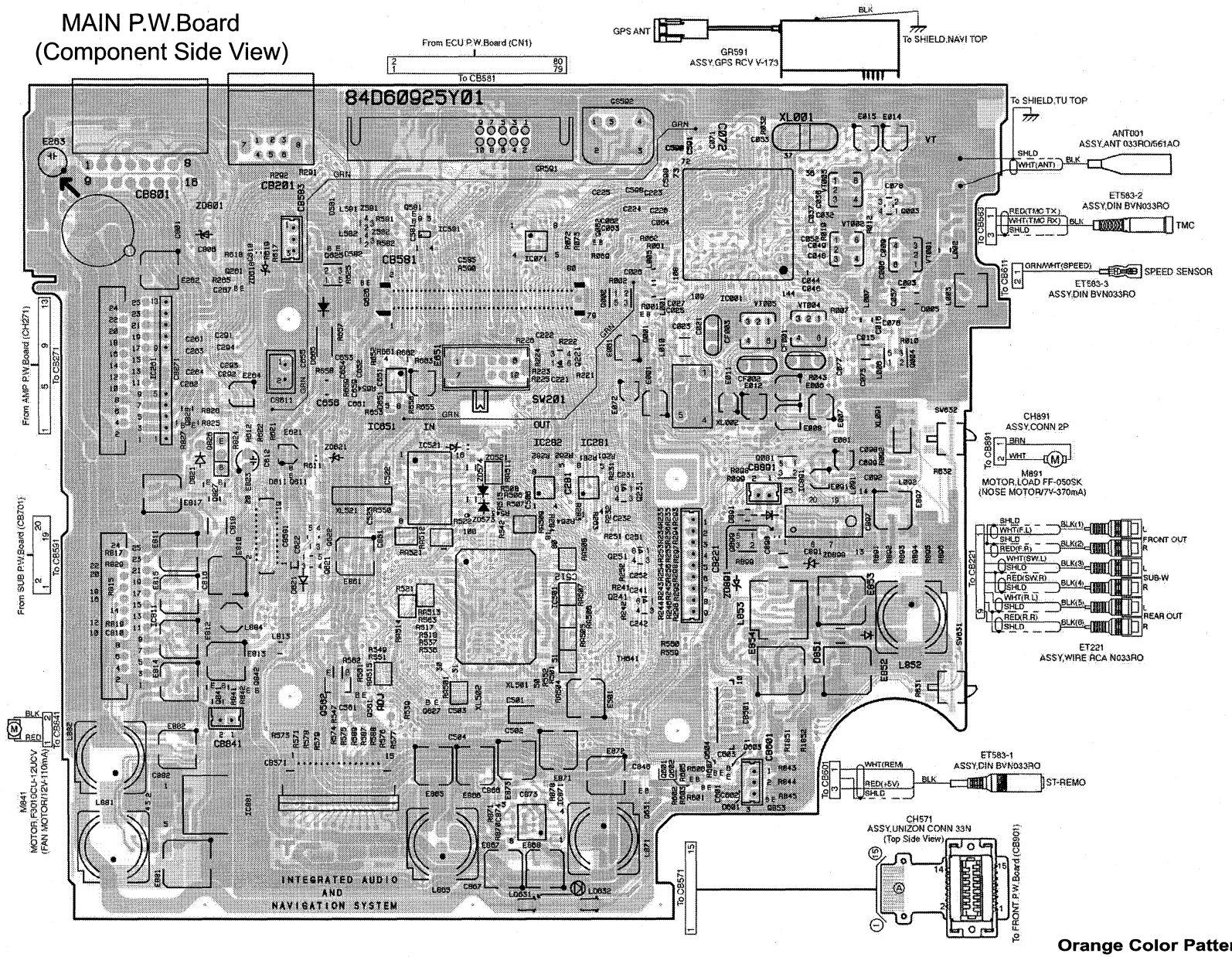
(signal Block)



(POWER SUPPLY Block)



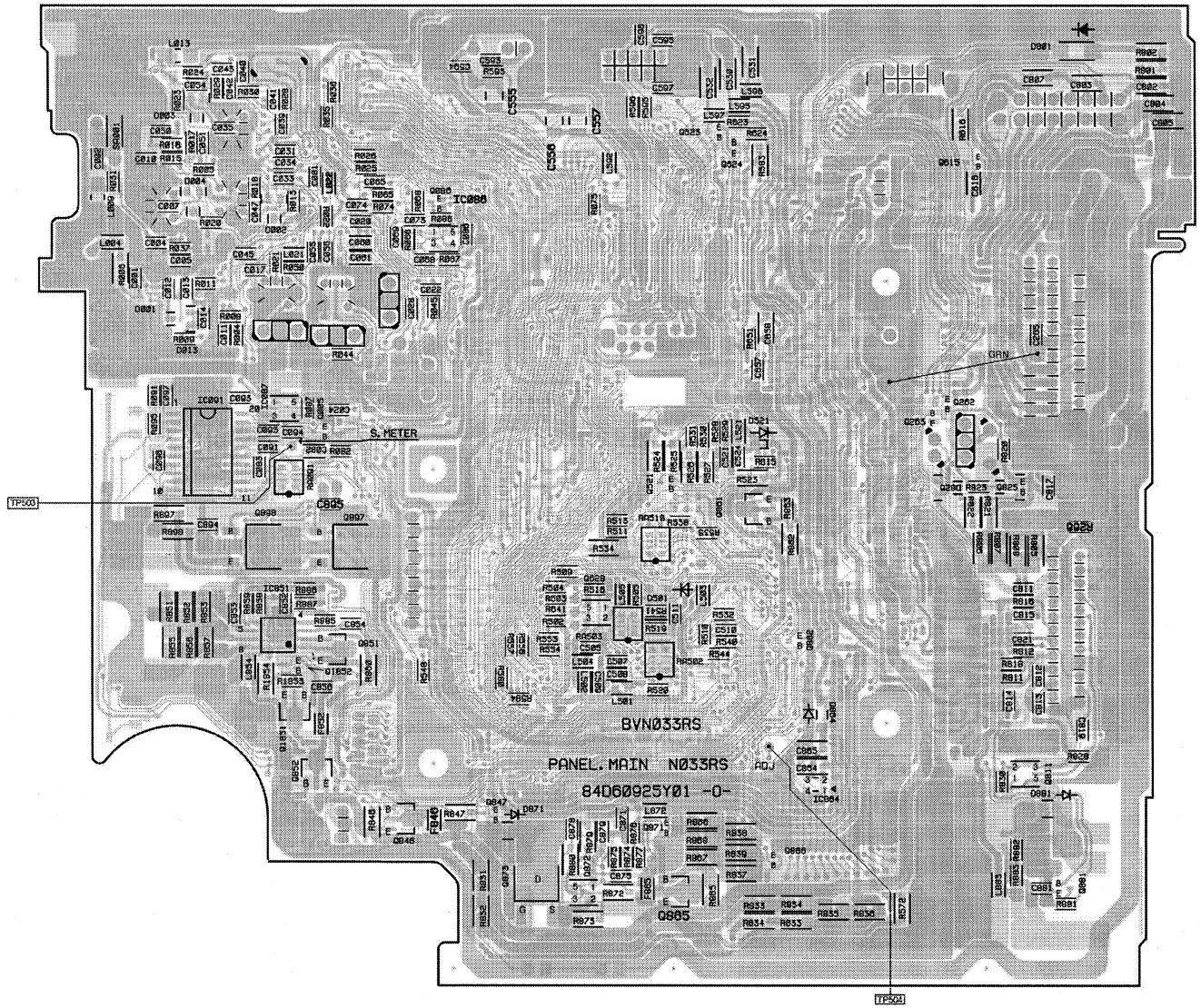
Parts Layout on P.W.Boards and Wiring Diagram (1/5)



Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (2/5)

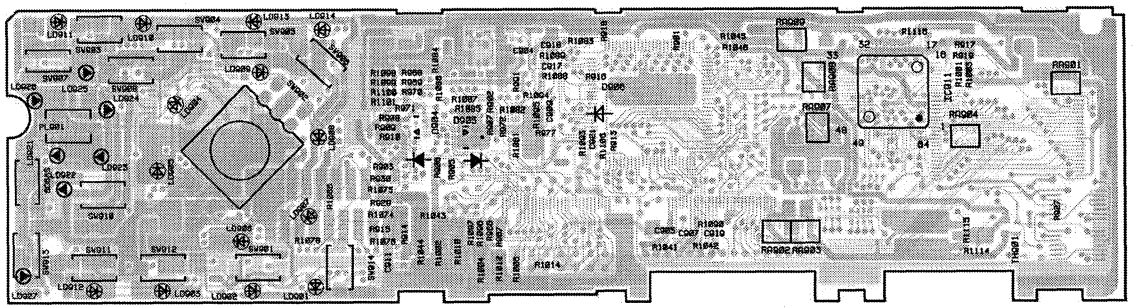
MAIN P.W.Board (Foil Side View)



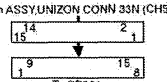
Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (3/5)

FRONT P.W.Board (Component Side View)

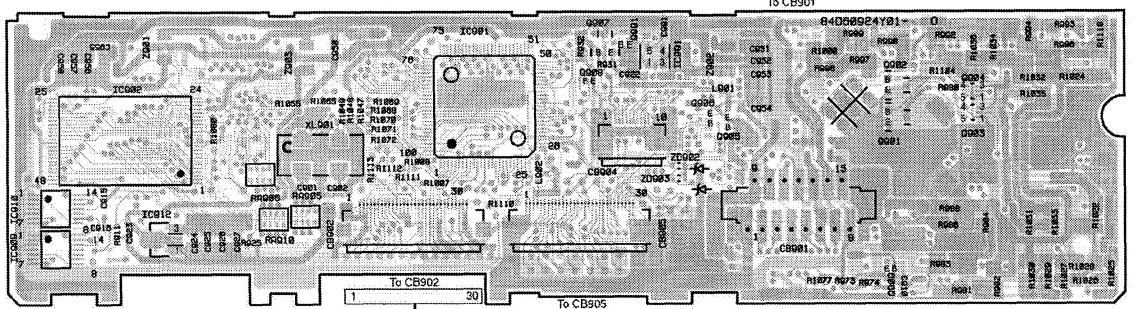


From ASSY,UNIZON CONN 33N (CH571)



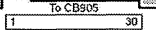
To CB901

FRONT P.W.Board (Foil Side View)

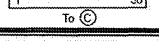


To CB902

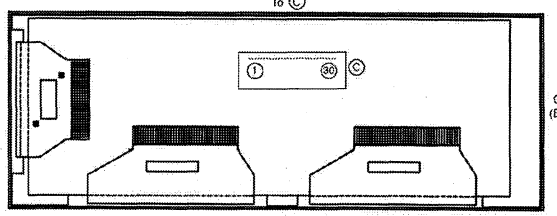
To CB905



From ASSY,FPC SHEET SW (B)



To C

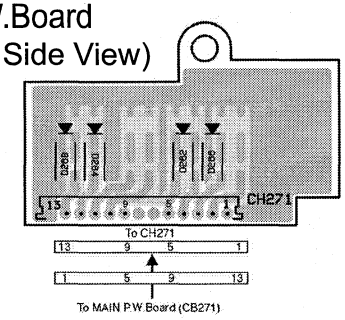


OELD901
OELD,UEL10010
(Bottom Side View)

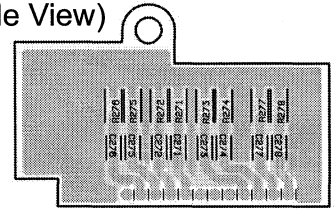
Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

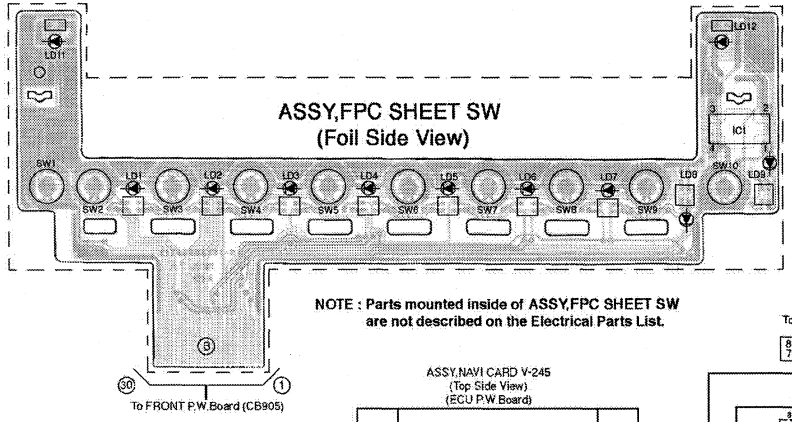
Parts Layout on P.W.Boards and Wiring Diagram (4/5)

AMP P.W.Board
(Component Side View)

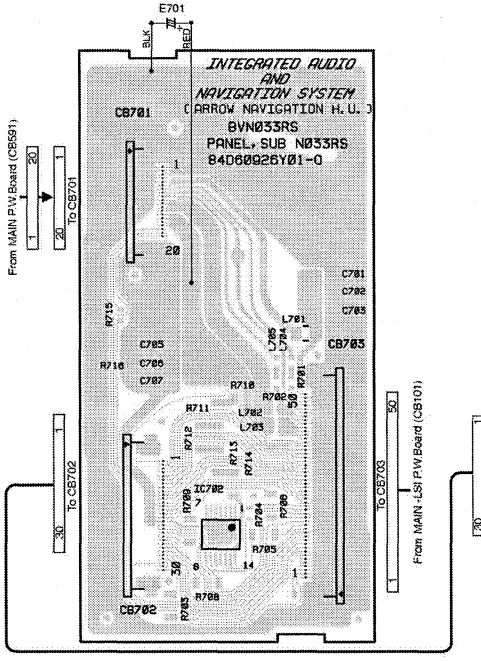


AMP P.W.Board
(Foil Side View)

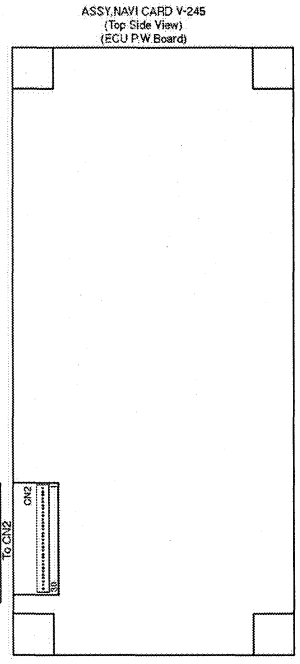


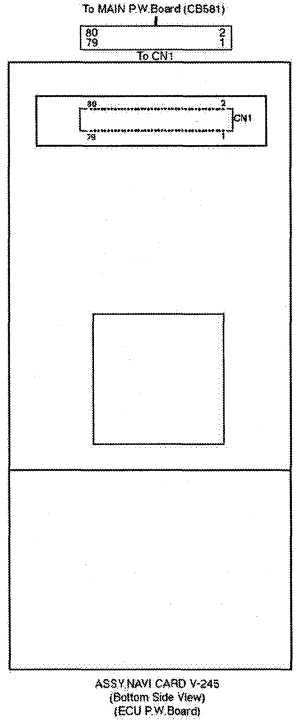


NOTE : Parts mounted inside of ASSY,FPC SHEET SW
are not described on the Electrical Parts List.



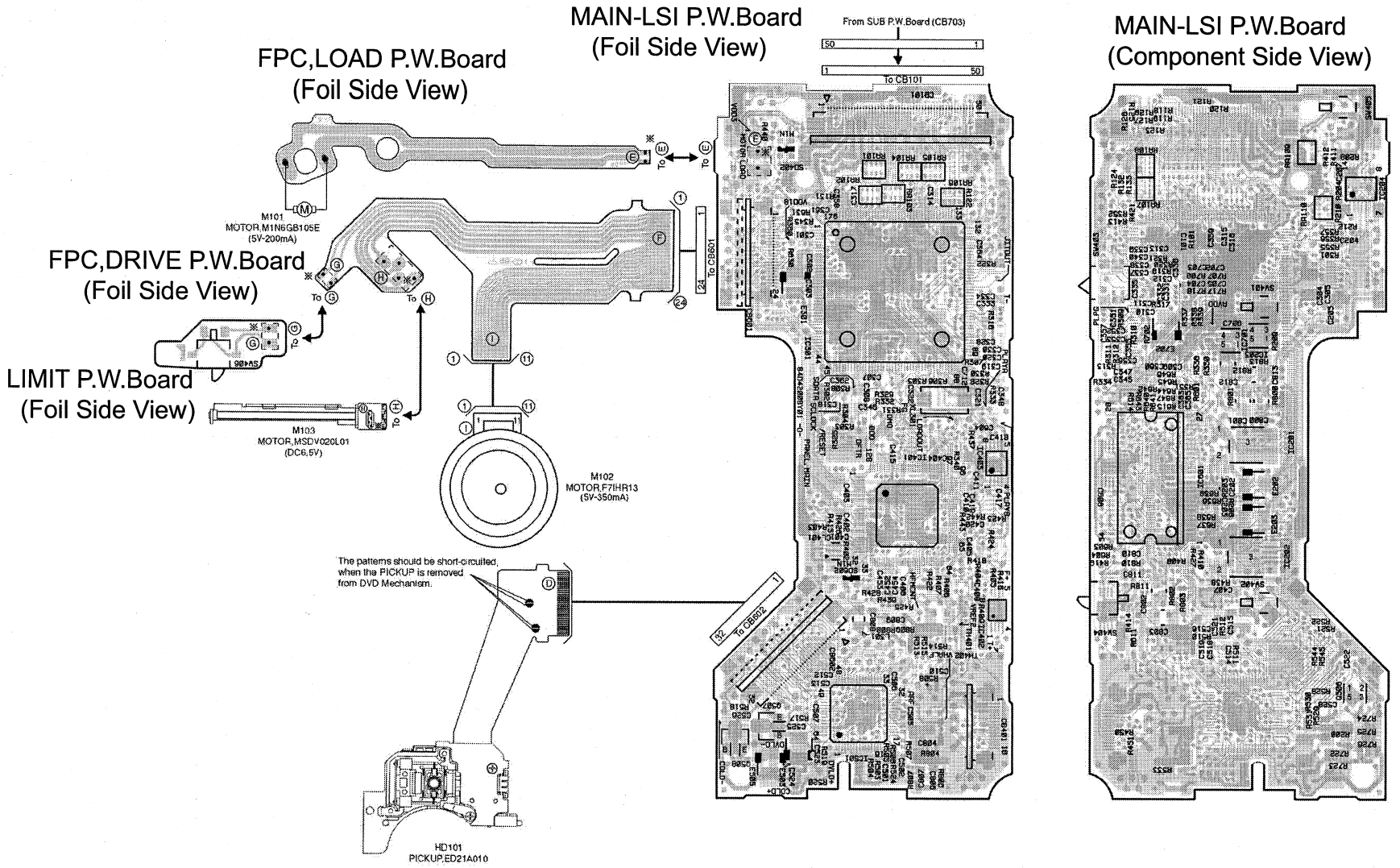
SUB P.W.Board
(Component Side View)





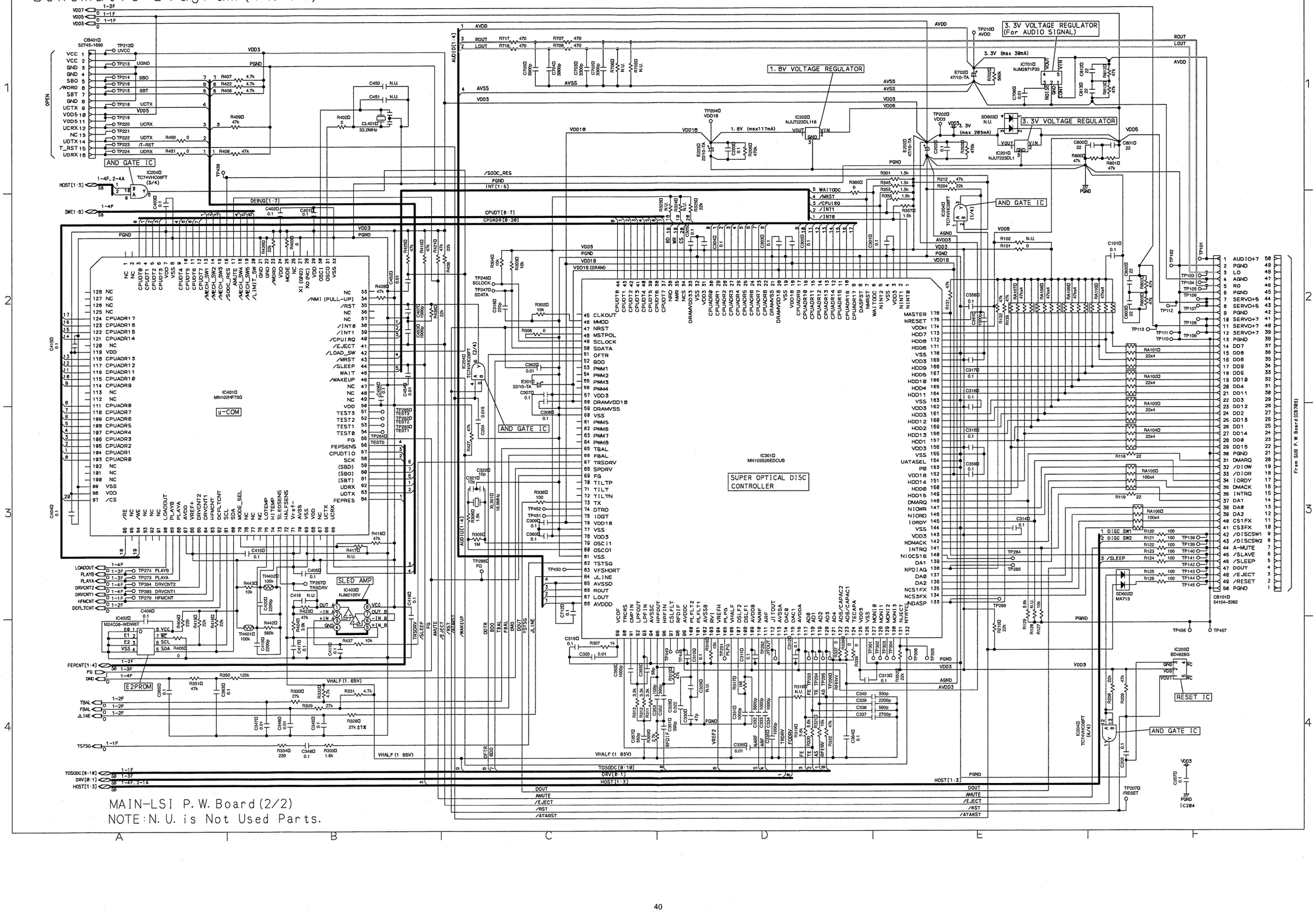
Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (5/5)



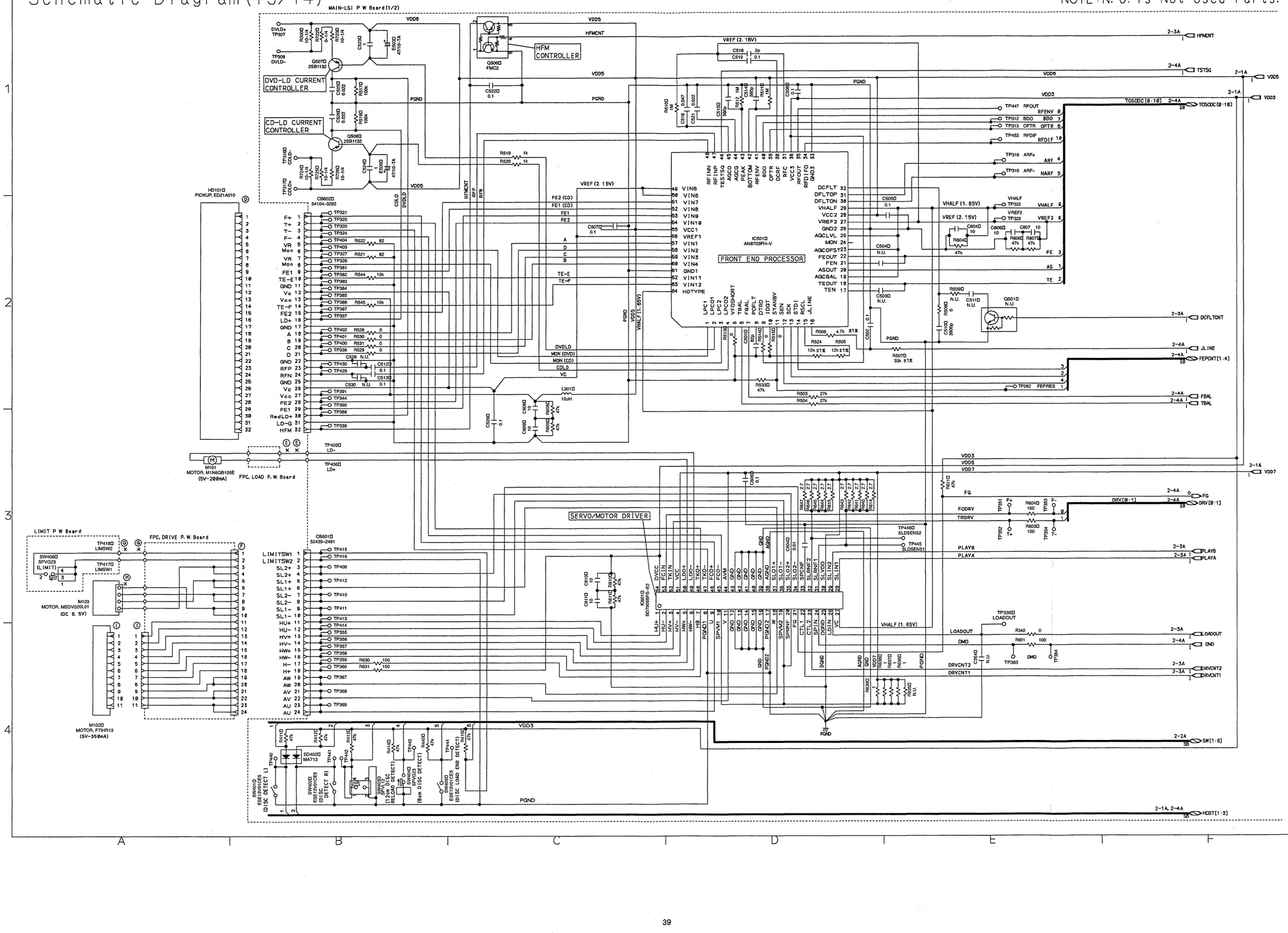
Orange Color Pattern:Component Side Pattern
Blue Color Pattern:Foil Side Pattern

Schematic Diagram(14/14)

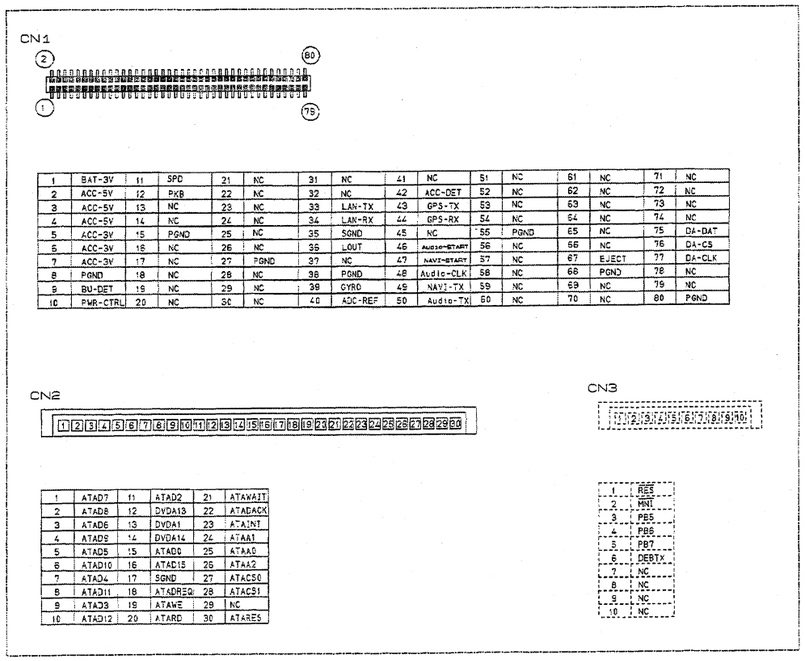


Schematic Diagram (13/14)

NOTE : N. U. is Not Used Parts.



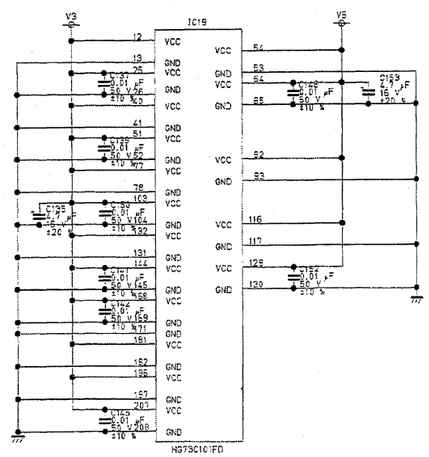
Schematic Diagram (12/14)



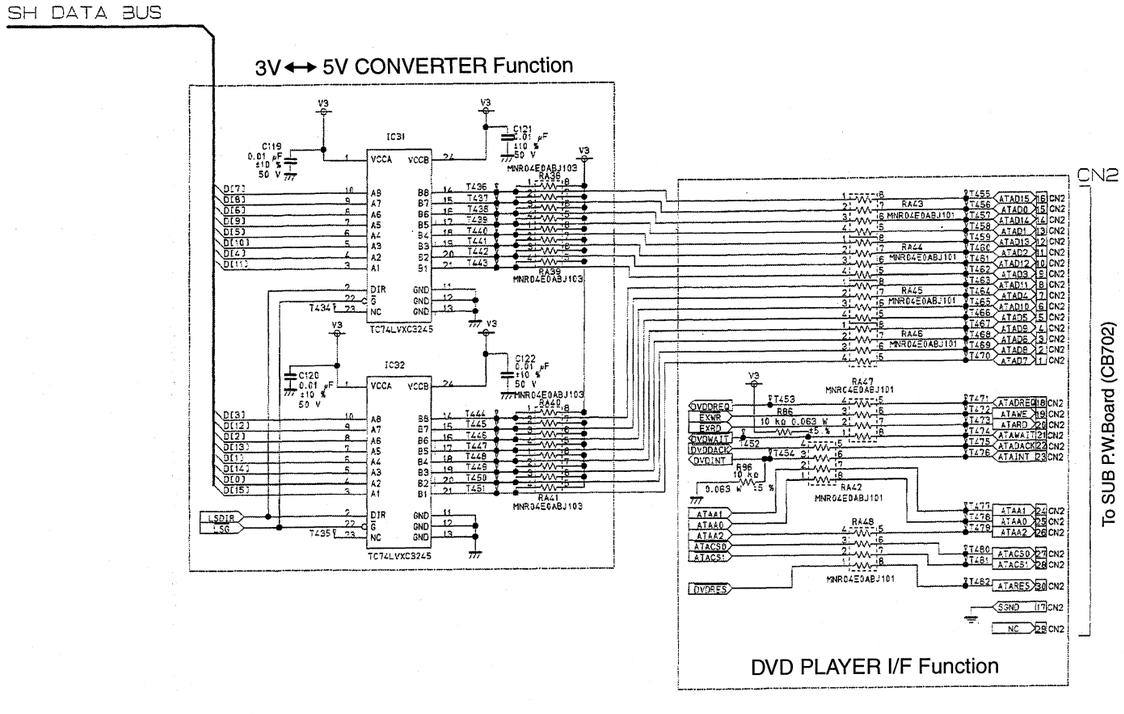
1	BAT-3V	11	SPD	21	NC	31	NC	41	NC	51	NC	61	NC	71	NC
2	ACC-5V	12	PKB	22	NC	32	NC	42	ACC-DET	52	NC	62	NC	72	NC
3	ACC-5V	13	NC	23	NC	33	LAN-TX	43	GPS-TX	53	NC	63	NC	73	NC
4	ACC-5V	14	NC	24	NC	34	LAN-RX	44	GPS-RX	54	NC	64	NC	74	NC
5	ACC-3V	15	PGND	25	NC	35	SGND	45	NC	55	PGND	65	NC	75	DA-DAT
6	ACC-3V	16	NC	26	NC	36	LOUT	46	AUDIO-START	56	NC	66	NC	76	DA-CS
7	ACC-3V	17	NC	27	PGND	37	NC	47	NAVI-START	57	NC	67	EJECT	77	DA-CLK
8	PGND	18	NC	28	NC	38	PGND	48	Audio-CLK	58	NC	68	PGND	78	NC
9	BU-DET	19	NC	29	NC	39	GYRO	49	NAVI-TX	59	NC	69	NC	79	NC
10	PWR-CTRL	20	NC	30	NC	40	ADC-REF	50	Audio-TX	60	NC	70	NC	80	PGND

1	ATAD7	11	ATAD2	21	ATAWAIT
2	ATAD8	12	DVDA13	22	ATADACK
3	ATAD6	13	DVDA1	23	ATAINT
4	ATAD9	14	DVDA14	24	ATAA1
5	ATAD5	15	ATAD0	25	ATAA0
6	ATAD10	16	ATAD15	26	ATAA2
7	ATAD4	17	SGND	27	ATACS0
8	ATAD11	18	ATADREQ	28	ATACS1
9	ATAD3	19	ATAWE	29	NC
10	ATAD12	20	ATARD	30	ATARES

1	RES
2	MNT
3	PB5
4	PB6
5	PB7
6	DEBTX
7	NC
8	NC
9	NC
10	NC



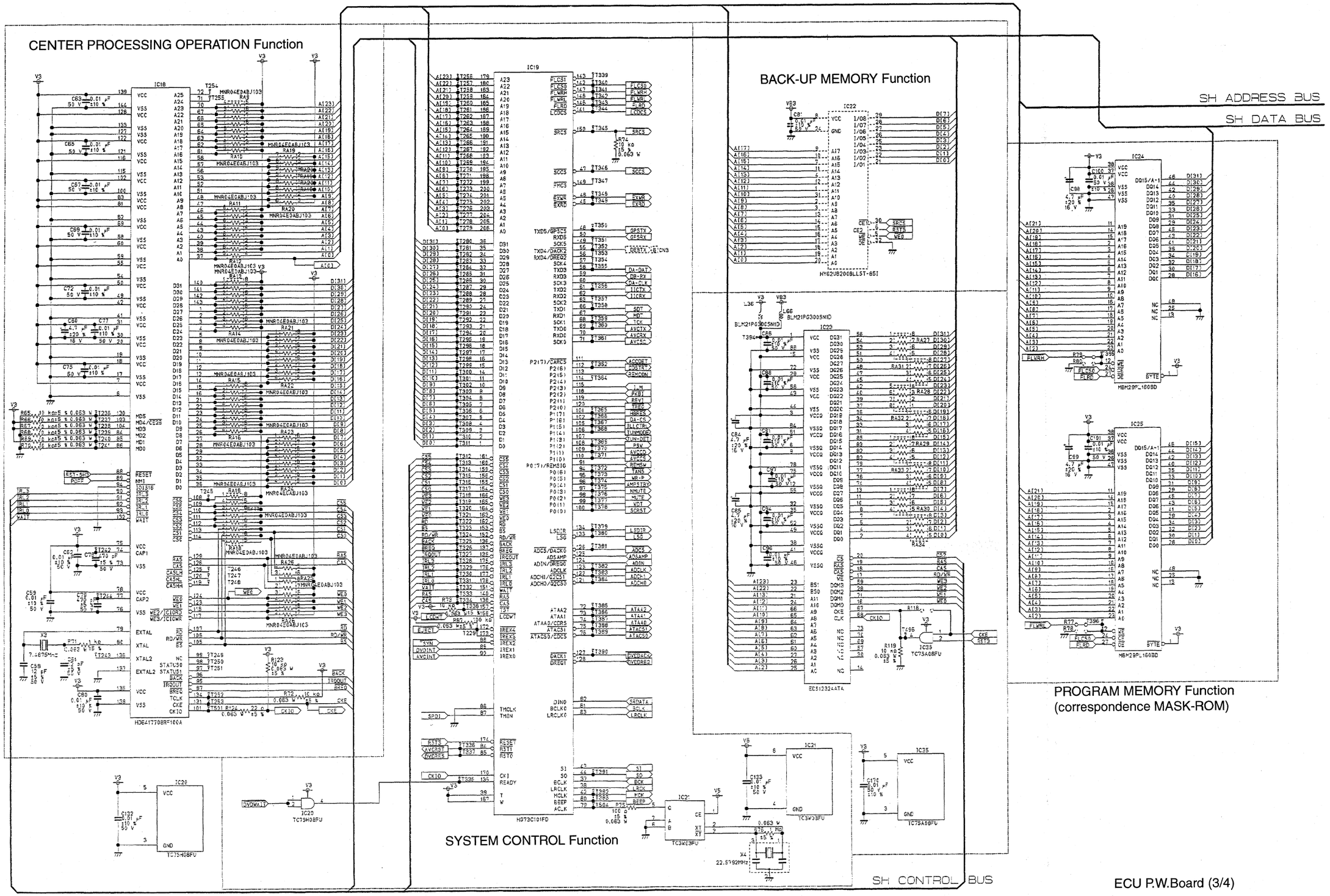
connect of VCC, GND and not used terminal



ECU P.W.Board (4/4)

"Schematic Diagram cannot use a reference function"

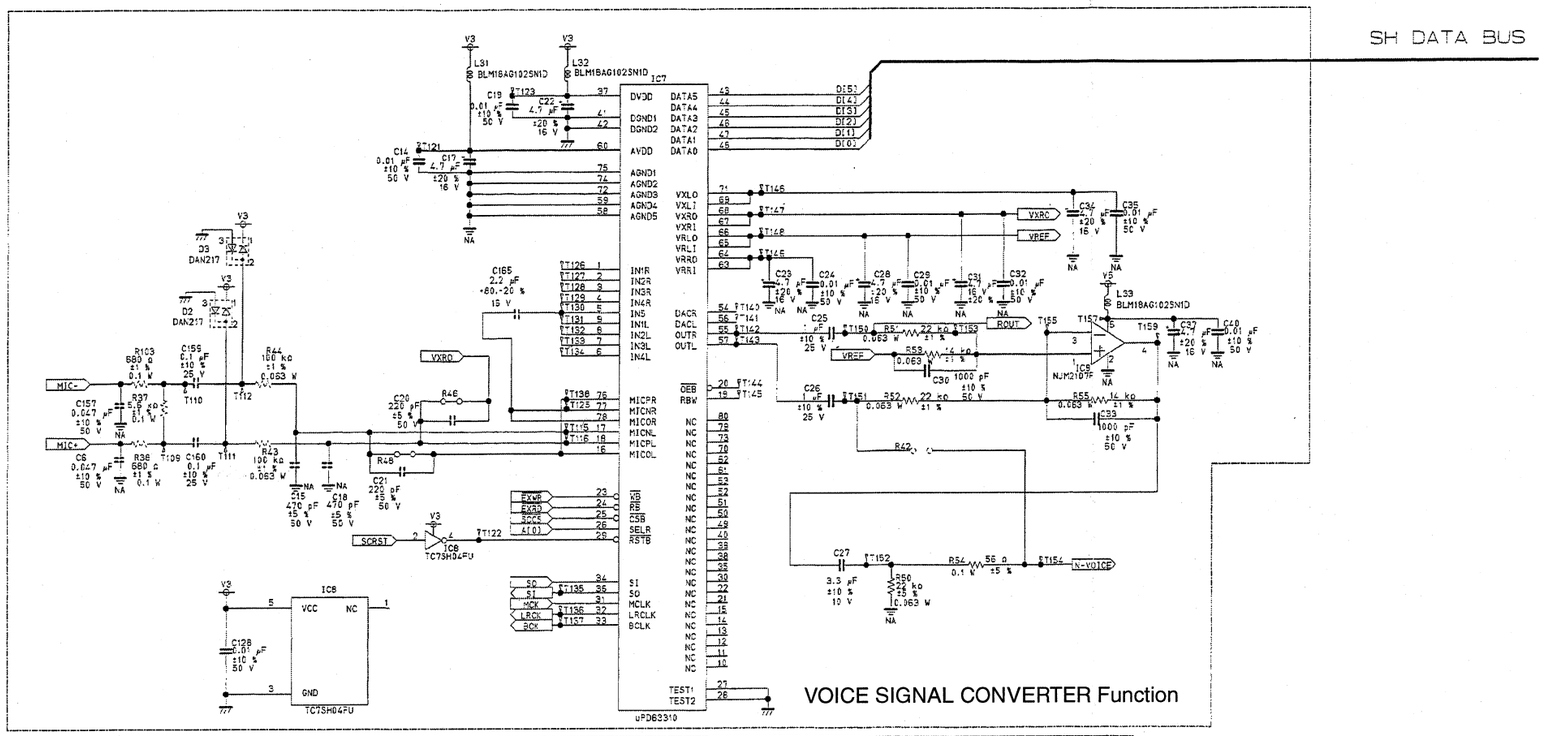
Schematic Diagram (11/14)

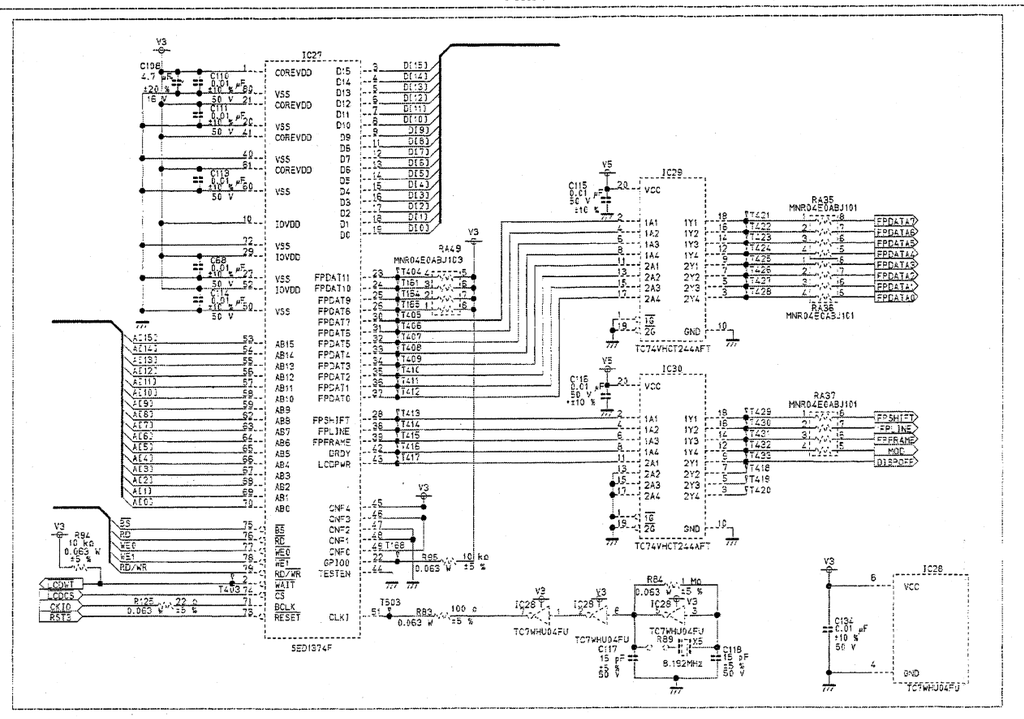


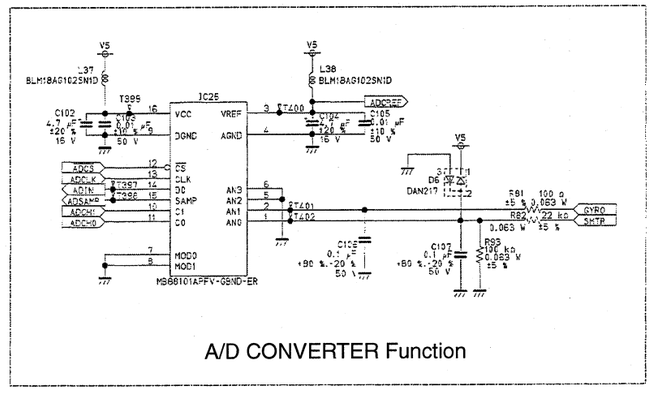
ECU P.W.Board (3/4)

"Schematic Diagram cannot use a reference function"

Scematic Diagram (10/14)



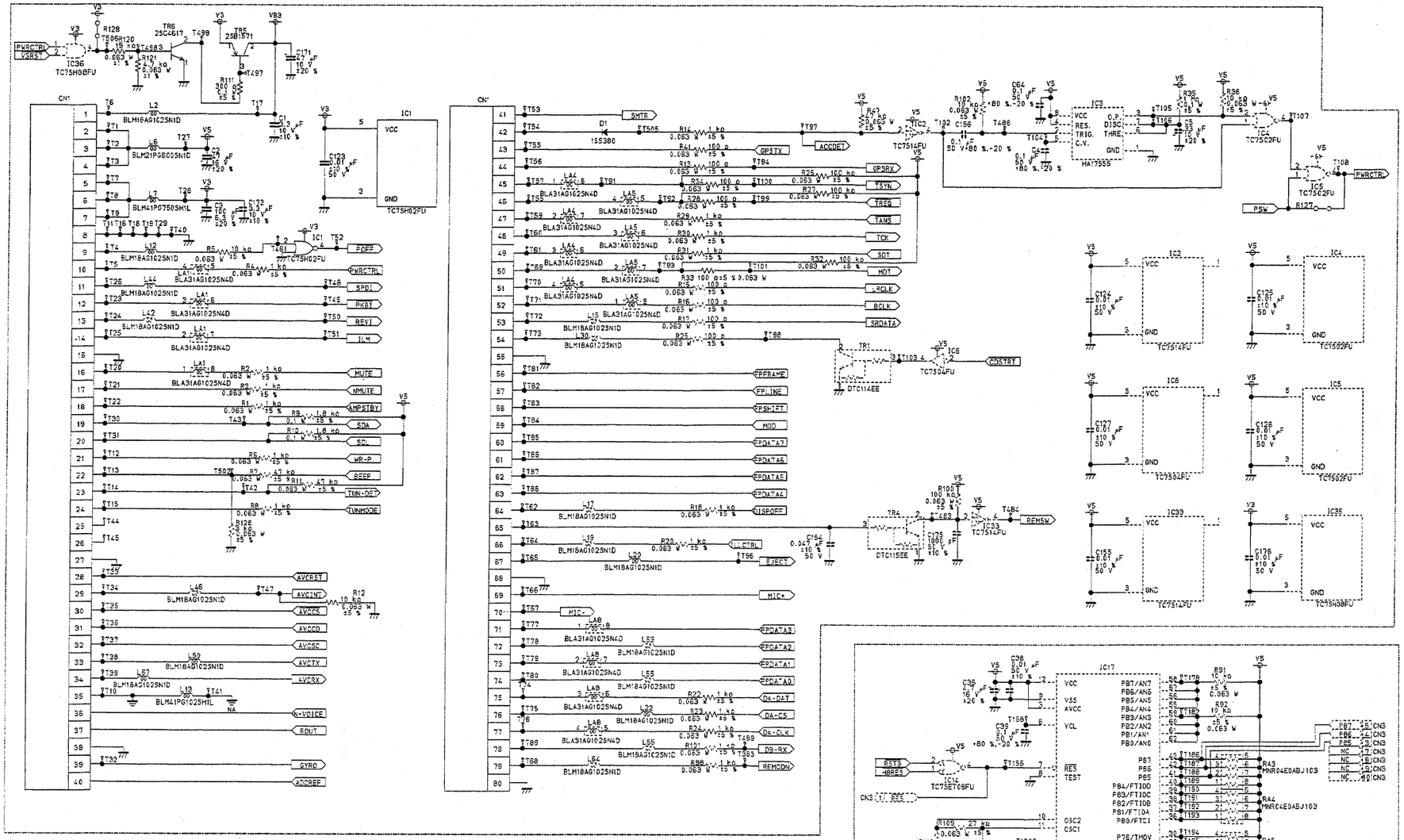


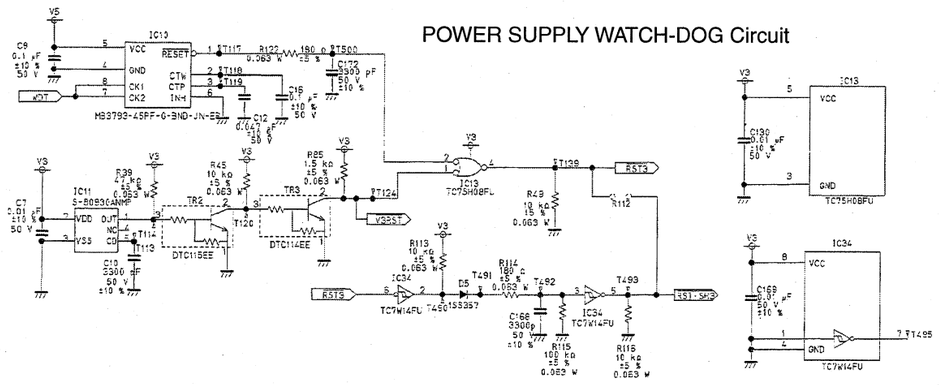


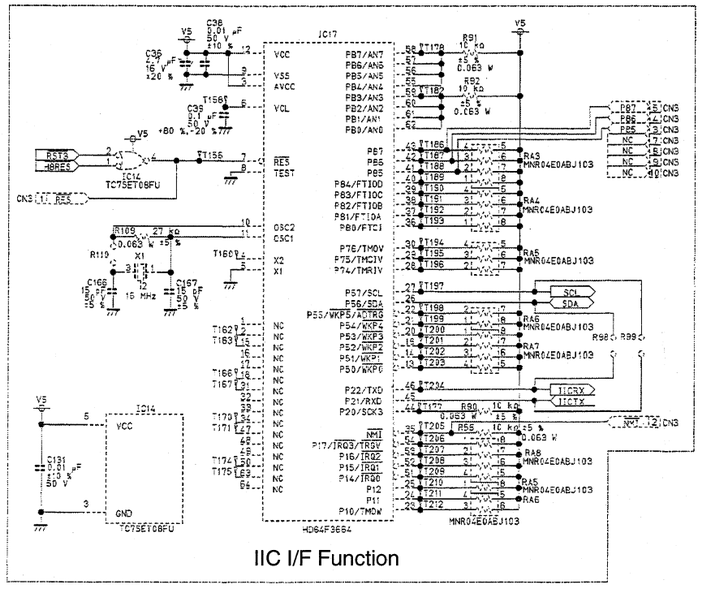
ECU P.W.Board (2/4)

"Schematic Diagram cannot use a reference function"

Schematic Diagram (9/14)







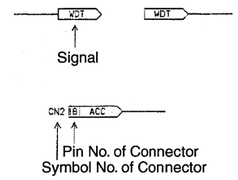
NOTE :

1. This is the control circuit of the Assy., ECU P.W.Board of INA-N333R.

2. This ECU has three types of connectors CN1 -CN3 for connection of input/output to/from an external unit, and is provided on the P.W.Board.

3. For the convenience of drawing the circuit diagram, the signals are expressed by the symbols shown in the notes, but the signals having the same nsme are connected.

(Example)

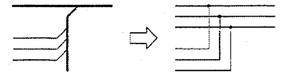


4. AS to the electric signal, the element enclosed by a broken line indicates a compsite elements, based on JIS C 0301.

5. In a capacitor, the element symbol is as shown below.

: Tantalum Electrolytic Condenser	: Aluminum Electrolytic Condenser

6. For the convenience of drawing the circuit diagram, the following rough sketch is used. The meaning is as shown below.



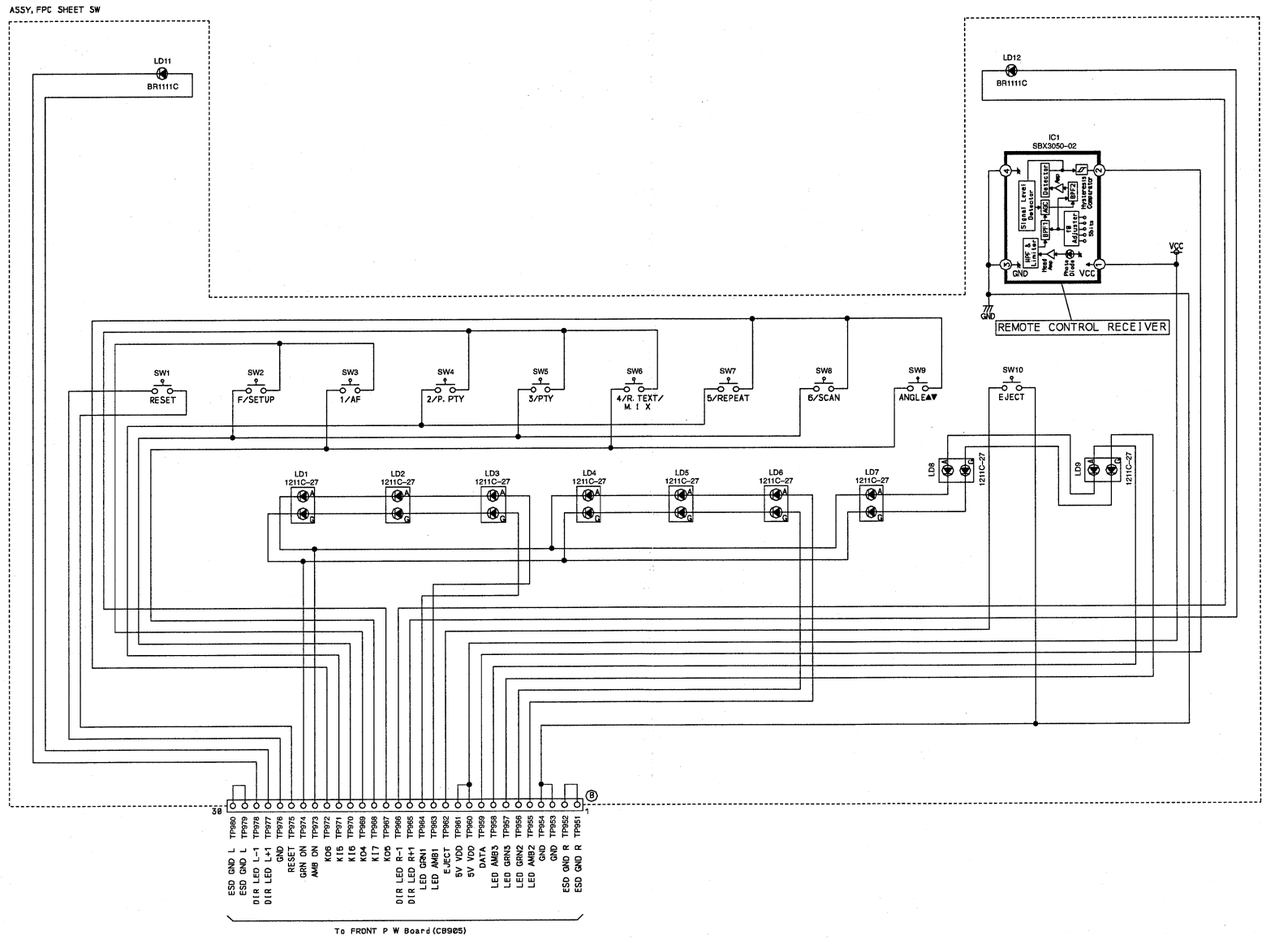
In the above description, a thick line is called a BUS line and the BUS line having the same name are connected.

7. In the circuit diagram, elements indicated by a broken line are not assembled, but a circuit is provided on the P.W.Board for the change in specifications.

ECU P.W.Board (1/4)

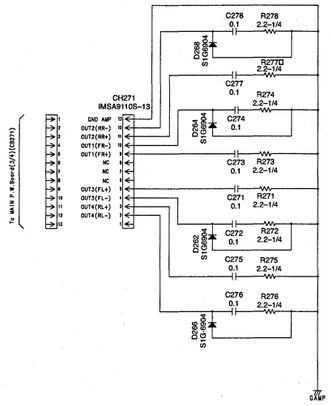
"Schematic Diagram cannot use a reference function"

Schematic Diagram (8/14)



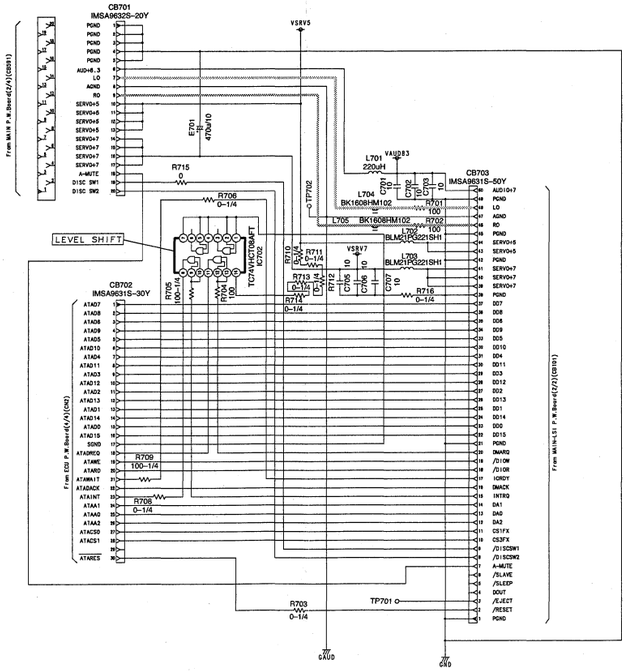
NOTE: Parts mounted inside of ASSY, FPC SHEET SW
are not described on the Electrical Parts List.

Schematic Diagram(7/14)



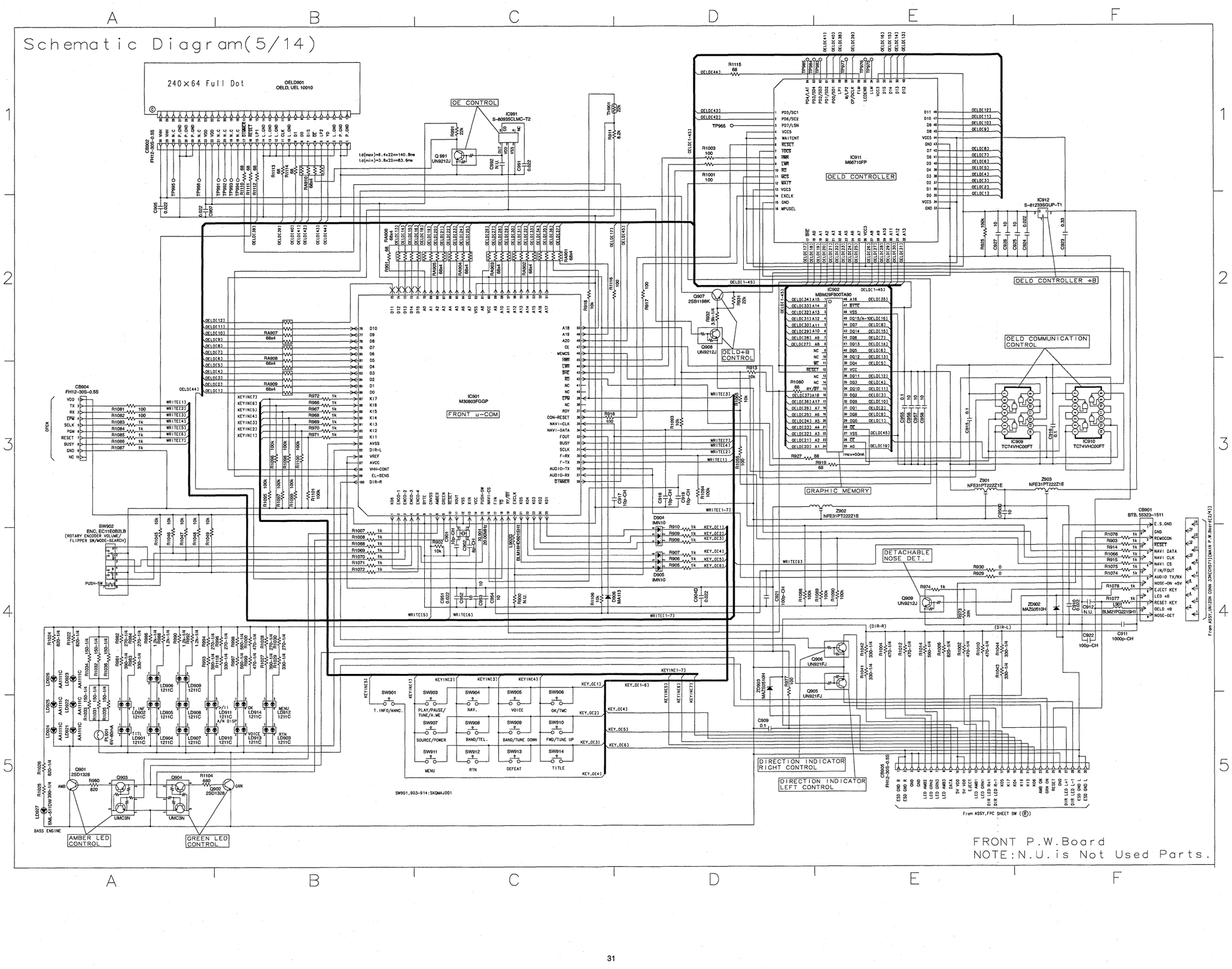
AMP P.W.Board

Schematic Diagram(6/14)

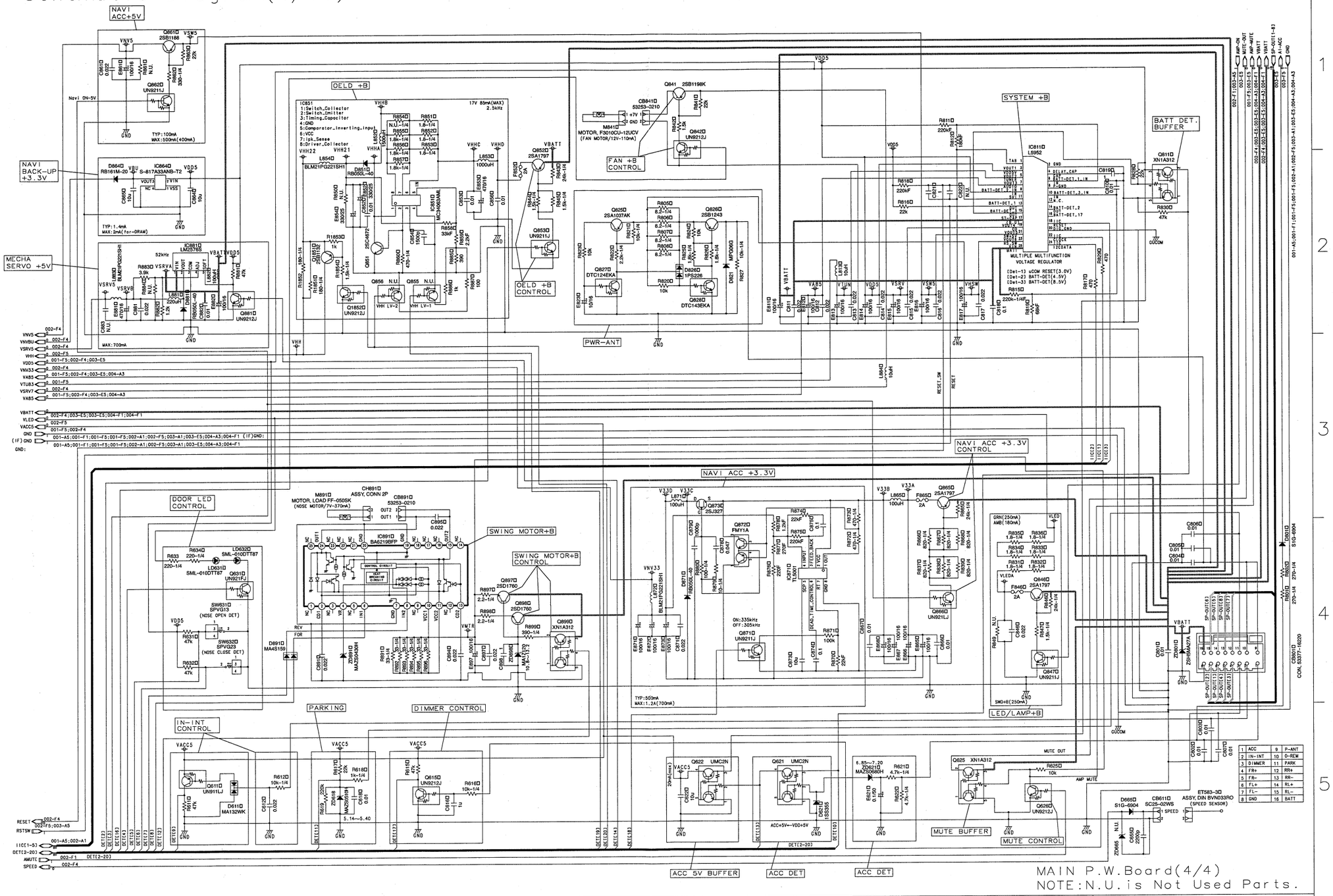


SUB P.W.Board

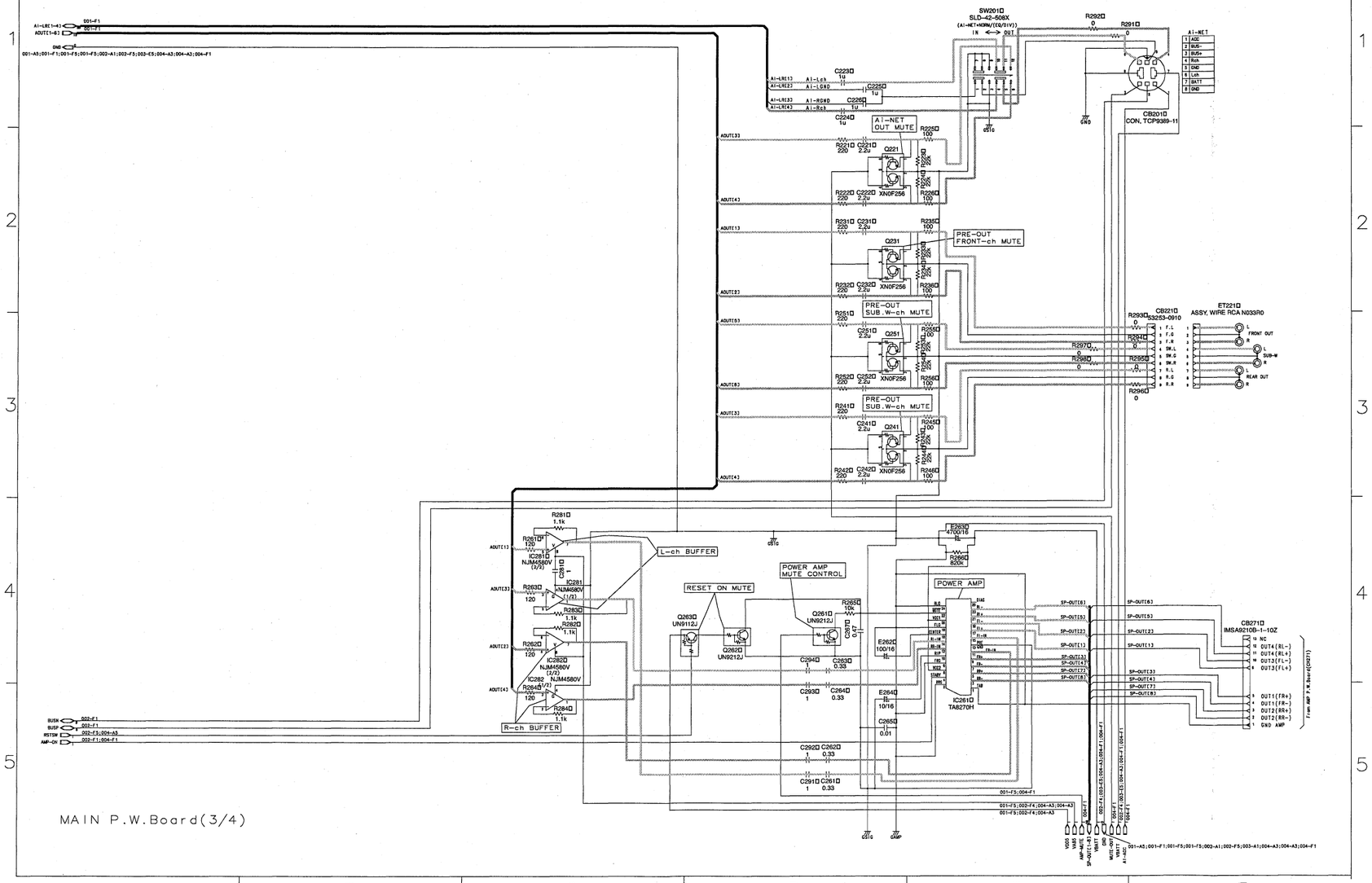
Schematic Diagram(5/14)



Schematic Diagram(4/14)



Schematic Diagram(3/14)



MAIN P.W.Board(3/4)

Schematic Diagram(2/14)

TMC COMMNICATION CONTROL

u-COM REF-VOLTAGE CONTROL

AI-NET BUS INTERFACE

MAIN u-COM

EJECT CONTROL

BATT DET. CONTROL

ACC DET. CONTROL

SPEED PULSE INTERFACE

STEERING REMOTE CONTROL INTERFACE

NOSE+B CONTROL

MAIN P.W.Board(2/4)

NOTE:N.U.is Not Used Parts.

Schematic Diagram(1/14)

FM/AM +B CONTROL

RDS ADJOINING CONTROL

AF_SWITCH

IF_MUTE CONTROL

RDS DECODER+B CONTROL

RDS DECODER

AM RF AGC

FM RF AGC

MULTI CHIP IC

IC001 TDA7518

FM/AM TUNER TDA7511
FM:62.5mA (VCC1+2+3)
AM:60.5mA (VCC1+2+3)

AUDIO PROCESSOR TDA7402

EEPROM M24C01

1/2 VCC BUFFER

S-METER BUFFER

MAIN P.W.Board(1/4)

NOTE:N.U.is Not Used Parts.

Terminal Voltage of IC/TR

IC001							
1	0	37	0	73	0	109	0
2	0	38	0	74	0	110	0
3	0	39	0	75	0	111	0
4	0	40	0	76	3.8	112	0
5	0	41	0	77	3.8	113	0.6
6	7.6	42	0	78	3.8	114	2.8
7	2	43	0	79	3.8	115	7.8
8	0	44	0	80	3.8	116	0
9	2	45	0	81	3.8	117	2
10	1.4	46	PULSE(4.8)	82	3.8	118	1.8
11	0.8	47	PULSE(4.8)	83	3.8	119	0
12	1	48	0	84	3.8	120	0.6
13	PULSE(3.0)	49	5	85	3.8	121	3.8
14	0	50	4.2	86	4	122	1.6
15	PULSE(4.8)	51	4.2	87	4	123	1.8
16	8	52	4.2	88	4	124	4.2
17	0	53	4.2	89	4	125	4.2
18	0	54	4.2	90	0	126	0
19	3.8	55	4.2	91	PULSE(0.6)	127	5
20	3.4	56	4.2	92	0	128	0
21	3.2	57	4.2	93	PULSE(4.0)	129	0
22	2	58	4	94	3.4	130	3.8
23	1	59	4	95	0	131	7.8
24	0	60	4	96	PULSE(4.8)	132	2
25	PULSE(3.6)	61	0	97	PULSE(4.8)	133	2
26	5	62	4	98	8.4	134	3.8
27	5	63	4.2	99	0	135	8
28	8	64	4.2	100	0	136	8
29	1.4	65	4.2	101	0	137	2
30	2.4	66	4.2	102	0	138	2
31	2.4	67	4.2	103	0	139	0
32	2.4	68	4.2	104	0	140	3.6
33	2.4	69	4	105	0	141	7.8
34	0	70	4	106	0	142	8
35	0	71	4	107	0	143	6
36	0	72	4	108	0	144	0

IC071	
1	4.2
2	4.2
3	4.2
4	0
5	0
6	0
7	0
8	8.4

IC086	
1	3.6
2	3.6
3	0
4	8.4
5	8.4

IC087	
1	3.2
2	3.2
3	0
4	8.4
5	8.4

IC091			
1	0	11	0
2	0	12	0
3	0	13	2.4
4	PULSE(2.6)	14	4.8
5	1.4	15	0
6	0	16	2.4
7	4.8	17	2.2
8	4.8	18	PULSE(3.0)
9	4.8	19	PULSE(2.6)
10	4.8	20	PULSE(3.0)

IC261			
1	0	14	2.6
2	0	15	2.6
3	10.8	16	7
4	4.4	17	3.4
5	11	18	8
6	14.2	19	3.6
7	3.6	20	14.2
8	0	21	10.8
9	3.6	22	1
10	10	23	10.8
11	2.6	24	0
12	2.6	25	0
13	0		

IC281	
1	4.2
2	4.2
3	4.2
4	0
5	4.2
6	4.2
7	4.2
8	8.4

IC282	
1	4.2
2	4.2
3	4.2
4	0
5	4.2
6	4.2
7	4.2
8	8.4

IC501							
1	4.8	26	4.6	51	4.8	76	4.8
2	0	27	4.6	52	4.8	77	2.2
3	4.8	28	4.6	53	0	78	PULSE(1.2)
4	0	29	4.6	54	4.8	79	0
5	4.8	30	4.8	55	4.8	80	0
6	4.8	31	4.8	56	0	81	1.6
7	4.8	32	4.8	57	0	82	PULSE(2.6)
8	0	33	4.8	58	4.8	83	PULSE(0.8)
9	4.8	34	4.8	59	0	84	2.6
10	0	35	0	60	4.8	85	PULSE(3.4)
11	4.8	36	PULSE(2.4)	61	0	86	0
12	4.8	37	3.2	62	0	87	0
13	4.8	38	1.4	63	0	88	0
14	4.8	39	1.4	64	4.8	89	0
15	0	40	0	65	0	90	4.8
16	0	41	4.8	66	0	91	4.8
17	4.8	42	0	67	4.6	92	4.8
18	0	43	4.8	68	0	93	0
19	4.8	44	4.8	69	0	94	0
20	4.8	45	4.8	70	0	95	4.8
21	0	46	0	71	4.8	96	0
22	4.8	47	0	72	0	97	4.8
23	4.6	48	3.2	73	4.8	98	0
24	4.6	49	4.8	74	4.8	99	0
25	4.6	50	0	75	0	100	4.6

IC521			
1	4.8	9	4.8
2	0	10	0
3	4.8	11	4.8
4	4.8	12	2
5	1.8	13	2.8
6	PULSE(4.2)	14	0
7	4.8	15	0
8	0	16	4.8

IC581	
1	4.8
2	4.8
3	4.8
4	0
5	0
6	0
7	0
8	4.8

IC651	
1	0.6
2	2.4
3	1.8
4	0
5	2.2
6	2.4
7	2.4
8	4.8

IC702			
1	0	8	PULSE(3.2)
2	0	9	PULSE(3.2)
3	0	10	PULSE(3.2)
4	0	11	0
5	0	12	0
6	0	13	0
7	0	14	5

IC811			
1	0	14	0
2	0	15	2.6
3	4.8	16	0
4	4.2	17	14.2
5	8.2	18	4.8
6	2	19	6.8
7	8.4	20	0
8	0	21	4.8
9	4.8	22	4.8
10	3.2	23	14.2
11	4.8	24	4.8
12	0	25	14.2
13	4.8		

IC851	
1	PULSE(17.4)
2	PULSE(0.6)
3	PULSE(1.2)
4	0
5	1.2
6	13.8
7	PULSE(13.8)
8	PULSE(13.8)

IC864	
1	0
2	4.8
3	3.4
4	0

IC871	
1	PULSE(13.8)
2	14
3	0.8
4	1
5	0.2
6	2.4
7	0.8
8	0

IC881	
1	14.2
2	PULSE(13.4)
3	0
4	1.2
5	0

IC891			
1	0	14	0
2	0	15	0
3	0	16	0
4	0	17	0
5	0	18	0
6	0	19	0
7	0	20	0
8	0	21	0
9	0	22	0
10	11.4	23	0
11	11.4	24	0
12	0	25	0
13	0		

IC901							
1	PULSE(4.8)	26	4.8	51	0	76	0
2	0	27	4.8	52	4.8	77	0
3	0	28	4.8	53	0	78	0
4	4.8	29	4.8	54	0	79	0
5	4.8	30	0	55	0	80	0
6	0	31	4.8	56	0	81	0
7	0	32	0	57	0	82	0
8	0	33	4.8	58	0	83	0
9	4.8	34	PULSE(5.2)	59	0	84	0
10	4.8	35	PULSE(4.8)	60	4.8	85	0
11	2.2	36	4.8	61	0	86	0
12	0	37	4.8	62	0	87	0
13	1.4	38	4.8	63	0	88	0
14	4.8	39	4.8	64	4.8	89	0
15	4.8	40	4.8	65	0	90	0
16	PULSE(5.0)	41	0	66	0	91	0
17	4.8	42	4.8	67	0	92	0
18	PULSE(2.0)	43	4.8	68	0	93	0
19	4.8	44	4.8	69	4.8	94	0
20	PULSE(5.0)	45	4.8	70	0	95	0
21	0	46	4.8	71	0	96	4.8
22	0	47	0	72	0	97	4.8
23	0	48	0	73	0	98	4.8
24	4.8	49	0	74	0	99	2.2
25	0	50	0	75	0	100	0

IC902							
1	4.8	13	0	25	4.8	37	4.8
2	0	14	0	26	0	38	4.8
3	0	15	4.8	27	0	39	4.8
4	0	16	0	28	4.8	40	4.8
5	0	17	0	29	0	41	4.8
6	0	18	0	30	0	42	4.8
7	0	19	0	31	0	43	4.8
8	0	20	4.8	32	0	44	4.8
9	0	21	0	33	0	45	4.8
10	0	22	0	34	0	46	4.8
11	4.8	23	0	35	0	47	PULSE(5.0)
12	4.8	24	0	36	0	48	0

IC909			
1	4.9	8	0
2	PULSE(5.0)	9	PULSE(5.0)
3	0	10	PULSE(5.0)
4	0	11	PULSE(5.0)
5	0	12	0
6	PULSE(5.0)	13	0
7	0	14	PULSE(5.0)

IC910			
1	PULSE(5.0)	8	PULSE(5.0)
2	PULSE(5.0)	9	0
3	0	10	PULSE(5.0)
4	0	11	PULSE(5.0)
5	0	12	0
6	PULSE(5.0)	13	0
7	0	14	PULSE(5.0)

IC911							
1	PULSE(4.9)	17	4.9	33	0	49	0
2	PULSE(4.9)	18	0	34	4.9	50	0
3	PULSE(2.0)	19	4.9	35	0	51	0
4	0	20	0	36	0	52	0
5	4.9	21	0	37	0	53	3.4
6	4.9	22	0	38	0	54	PULSE(4.9)
7	4.9	23	0	39	0	55	4.9
8	4.9	24	4.9	40	0	56	PULSE(1.9)
9	4.9	25	0	41	0	57	PULSE(2.5)
10	4.9	26	3.4	42	0	58	PULSE(4.9)
11	4.9	27	0	43	0	59	PULSE(1.84)
12	4.9	28	0	44	4.9	60	PULSE(4.9)
13	3.4	29	0	45	0	61	PULSE(4.9)
14	PULSE(4.8)	30	0	46	0	62	PULSE(4.9)
15	0	31	0	47	0	63	PULSE(4.9)
16	4.9	32	0	48	0	64	0

IC912	
1	0
2	4.9
3	3.36

IC991	
1	4.9
2	4.9
3	0
4	0
5	0

Ref. No.	1	2	3	4	5	6
Q221	0	0	0	13.4	0	13.4
Q231	0	0	0	13.4	0	13.4
Q241	0	0	0	13.4	0	13.4
Q251	0	0	0	13.4	0	13.4

Ref. No.	1	2	3	4	5
Q002	0	7.6	7.6	3.8	0
Q004	0	0	0	0	0
Q081	0	4.2	4.4	3.8	0
Q621	0	5.4	4.4	4.4	0
Q622	0	4.4	4.4	4.4	0
Q625	0	13.4	13.6	5.6	0
Q628	0	4.83	4.8	4.8	0
Q811	0	4.8	4.8	2.6	0
Q872	0	13.6	13.4	13.4	13.4
Q899	0	13.6	13.6	4.2	0
Q903	0	0	4.8	0	4.8
Q904	0	4.4	4.8	4.8	0

Ref. No.	1	2	3	4
Q003	7.2	0.6	2	7.2

Ref. No.	E	B	C
Q001	7.6	7.4	0
Q005	0	0	7.8
Q062	0	0	3
Q086	0	0	7.8
Q261	0	5.6	0
Q262	0	0	0.8
Q263	4.4	4.4	0
Q521	4.4	4.4	1.4
Q561	0	4.2	0
Q562	4.4	4.4	3.8
Q581	0	0	0
Q601	4.4	4.4	0
Q602	0	0	0
Q603	0	0	1.8
Q604	0	1.4	0
Q611	4.4	4.4	0
Q615	0	0	4.2
Q623	0	4.2	0
Q624	0	4.2	0
Q626	0	0	5.6
Q627	0	0	2.8
Q631	0	0	8.8
Q825	14	13.8	0
Q826	13.6	13	13.6
Q827	13.4	0	0
Q828	0	0	4.4

Ref. No.	E	B	C
Q841	6.4	5.8	6.4
Q842	0	4.2	0
Q846	13.6	13	13.6
Q847	0	4	0
Q851	0	0.6	16.8
Q852	13.6	12.8	13.6
Q853	0	4	0
Q861	4.4	3.8	4.4
Q862	0	3.4	0
Q865	13.6	12.8	13.6
Q866	0	3.4	0
Q871	0	0	0.8
Q881	0	4.2	0
Q897	11	11.4	13.6
Q898	11	11.4	13.6
Q901	0.08	0	9.2
Q902	0	0	0
Q905	0	0	10.6
Q906	0	0	10.6
Q907	17	17	16.4
Q908	0	4.8	0
Q909	0	4.8	0
Q991	0	4.8	0
Q1851	13.6	12.8	13.6
Q1852	0	4.2	0

Ref. No.	G	S	D
Q873	13.4	4.6	13.6

[Measuring Conditions]

1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Voltmeter
3. Measuring Point Reference : Between GND
4. Measuring Condition : at usually operation

(DVD Deck Mechanism)

NOTE : DATA, ADDRESS, DIGITAL, PWM : Low/High switching Digital Signal by 0V/3.3V
ANALOG : usually changing Signal
RF : High-frequency RF Signal

IC201	
1	3.3
2	4.83
3	0

IC202	
1	1.81
2	4.83
3	0

IC203	
1	3.15
2	3.3
3	0

IC204	
1	DIGITAL
2	DIGITAL
3	DIGITAL
4	DIGITAL
5	DIGITAL
6	DIGITAL
7	0
8	DIGITAL
9	DIGITAL
10	DIGITAL
11	DIGITAL
12	DIGITAL
13	DIGITAL
14	3.3

IC301							
1	3.3	45	CLOCK	89	0	133	3.29
2	3.28	46	0	90	1.63	134	3.27
3	3.3	47	3.15	91	1.64	135	3.27
4	0	48	0	92	ANALOG	136	ADDRESS
5	3.3	49	CLOCK	93	ANALOG	137	ADDRESS
6	3.3	50	DATA	94	ANALOG	138	3.29
7	3.3	51	0	95	ANALOG	139	ADDRESS
8	0	52	0	96	ANALOG	140	DATA
9	ADDRESS	53	PWM	97	1.16	141	0
10	ADDRESS	54	PWM	98	1.63	142	3.27
11	ADDRESS	55	PWM	99	3.29	143	3.3
12	ADDRESS	56	PWM	100	1.25	144	0
13	ADDRESS	57	3.3	101	1.25	145	3.27
14	ADDRESS	58	1.8	102	0	146	3.27
15	ADDRESS	59	0	103	1.44	147	3.27
16	ADDRESS	60	0	104	2.14	148	0
17	ADDRESS	61	PWM	105	2.82	149	DATA
18	1.8	62	PWM	106	1.65	150	DATA
19	0	63	PWM	107	1.62	151	DATA
20	1.8	64	PWM	108	1.5	152	1.81
21	0	65	DIGITAL	109	3.3	153	0
22	ADDRESS	66	DIGITAL	110	RF	154	0
23	ADDRESS	67	DIGITAL	111	RF	155	0
24	ADDRESS	68	DIGITAL	112	2.16	156	3.3
25	ADDRESS	69	FG	113	0	157	DATA
26	ADDRESS	70	DIGITAL	114	ANALOG	158	DATA
27	ADDRESS	71	DIGITAL	115	ANALOG	159	DATA
28	ADDRESS	72	DIGITAL	116	3.3	160	DATA
29	ADDRESS	73	0	117	ANALOG	161	DATA
30	ADDRESS	74	3.3	118	ANALOG	162	3.3
31	3.3	75	0	119	ANALOG	163	0
32	0	76	1.8	120	ANALOG	164	DATA
33	3.3	77	0	121	ANALOG	165	DATA
34	3.29	78	3.3	122	ANALOG	166	DATA
35	3.3	79	CLOCK	123	ANALOG	167	DATA
36	3.29	80	CLOCK	124	ANALOG	168	DATA
37	DATA	81	0	125	3.3	169	3.3
38	DATA	82	0	126	0	170	0
39	DATA	83	0	127	0	171	DATA
40	DATA	84	DIGITAL	128	0	172	DATA
41	DATA	85	0	129	0	173	DATA
42	DATA	86	1.72	130	0	174	4.85
43	DATA	87	1.68	131	3.28	175	3.3
44	DATA	88	3.37	132	3.29	176	3.25

IC401							
1	-	33	-	65	0	97	3.29
2	-	34	3.28	66	3.3	98	3.29
3	DATA	35	3.29	67	-	99	0
4	DATA	36	-	68	3.29	100	-
5	DATA	37	-	69	0	101	-
6	DATA	38	3.3	70	0	102	-
7	3.29	39	0	71	0	103	ADDRESS
8	0	40	0	72	1.65	104	ADDRESS
9	DATA	41	3.3	73	1.71	105	ADDRESS
10	DATA	42	3.3	74	2.8	106	ADDRESS
11	DATA	43	3.3	75	2.99	107	ADDRESS
12	DATA	44	3.3.6	76	-	108	ADDRESS
13	SW	45	3.3	77	-	109	ADDRESS
14	SW	46	3.3	78	-	110	ADDRESS
15	SW	47	-	79	3.28	111	ADDRESS
16	3.29	48	-	80	3.23	112	-
17	3.27	49	-	81	3.22	113	-
18	SW	50	3.3	82	0	114	ADDRESS
19	SW	51	0	83	3.28	115	ADDRESS
20	SW	52	0	84	3.28	116	ADDRESS
21	0	53	0	85	3.29	117	ADDRESS
22	0	54	0	86	3.29	118	ADDRESS
23	3.28	55	FG	87	3.29	119	3.29
24	3.23	56	3.3	88	1.64	120	-
25	3.22	57	3.3	89	1.64	121	ADDRESS
26	0	58	3.3	90	1.64	122	ADDRESS
27	0	59	3.3	91	-	123	ADDRESS
28	0	60	3.3	92	-	124	ADDRESS
29	3.29	61	3.3	93	-	125	-
30	CLOCK	62	0	94	1.64	126	-
31	CLOCK	63	3.3	95	-	127	-
32	0	64	3.28	96	3.29	128	-

IC402	
1	0
2	0
3	0
4	0
5	3.23
6	3.22
7	0
8	3.29

IC403	
1	1.37
2	1.63
3	1.63
4	0
5	1.64
6	1.64
7	1.64
8	3.29

IC501							
1	ANALOG	17	ANALOG	33	0	49	RF
2	3.45	18	ANALOG	34	2.07	50	RF
3	ANALOG	19	DIGITAL	35	ANALOG	51	RF
4	3.19	20	2.1	36	3.29	52	RF
5	DIGITAL	21	ANALOG	37	ANALOG	53	RF
6	ANALOG	22	ANALOG	38	ANALOG	54	RF
7	ANALOG	23	DIGITAL	39	ANALOG	55	4.85
8	DIGITAL	24	-	40	ANALOG	56	2.19
9	DIGITAL	25	DIGITAL	41	ANALOG	57	RF
10	DIGITAL	26	0	42	ANALOG	58	RF
11	DIGITAL	27	2.14	43	ANALOG	59	RF
12	DIGITAL	28	4.85	44	ANALOG	60	RF
13	DIGITAL	29	1.64	45	ANALOG	61	0
14	DIGITAL	30	RF	46	ANALOG	62	RF
15	1.17	31	RF	47	ANALOG	63	RF
16	1.64	32	2.16	48	ANALOG	64	DIGITAL

IC601			
1	3.06	28	1.68
2	3.06	29	1.65
3	3.08	30	6.87
4	3.08	31	6.87
5	3.08	32	6.87
6	3.08	33	ANALOG
7	1.26	34	ANALOG
8	0	35	ANALOG
9	3.05	36	ANALOG
10	6.86	37	ANALOG
11	3.05	38	0
12	0	39	0
13	0	40	0
14	0	41	0
15	0	42	0
16	0	43	0
17	0	44	6.87
18	3.05	45	ANALOG
19	6.85	46	ANALOG
20	6.85	47	ANALOG
21	FG	48	ANALOG
22	3.28	49	ANALOG
23	3.28	50	ANALOG
24	1.69	51	6.87
25	0	52	ANALOG
26	1.64	53	ANALOG
27	1.64	54	4.86

IC701	
1	6.97
2	0
3	1.33
4	3.37
5	6.97

Q506	
1	NC
2	4.69
3	4.81
4	3.27
5	0

Q507	
B	3.56
C	2.33
E	4.2

Q508	
B	3.3
C	1.98
E	3.95

[Measuring Conditions]

1. Power Supply Voltage : MECH-7V, MECH-5V power supply
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between GND
4. Measuring Condion : playing DVD, measuring of DVD-MECH simple substance

Description of IC Terminal

D70F3032BGF : IC501

No.	Symbol	I/O	Terminal Description
1	RDS-TX	O	RDS monitor data output terminal.
2	VPP2/HS	-	VPP2 for Handshake Mode or HS connect terminal.
3	TU-SDA(7511)	I/O	7511-IIC data signal input/output terminal.
4	NC	-	No connect terminal.
5	TU-SCL(7511)	O	7511-IIC clock signal output terminal.
6	IS-BUS-RXD	I	Internal serial BUS data input terminal.
7	IS-BUS-TXD	O	Internal serial BUS data output terminal.
8	NC	-	No connect terminal.
9	EVDD	-	VDD+5V connect terminal.
10	EVSS	-	GND connect terminal.
11	OFF REQ	I	Control OFF signal input terminal from NAVI.
12	BUS-RS	O	Ai-NET BUS-RS signal output terminal.
13	BUS-R/W	O	Ai-NET BUS-R/W signal output terminal.
14	BUS-RESET	O	Ai-NET BUS-RESET signal output terminal.
15	BUS-IN	I	Ai-NET BUS data signal input terminal.
16	BUS-OUT	O	Ai-NET BUS data signal output terminal.
17	BUS-SCLK	O	Ai-NET BUS clock signal output terminal.
18	IN-INT	I	IN-INT detection signal input terminal.
19	AMP-ON	O	POWER-IC power supply output terminal.
20	P-ANT(NC)	-	No connect terminal.
21	VPP	-	Terminal connected GND at usually active/connected Flash Pro II at writing Mode.
22	$\overline{\text{IS-BUS-FOUT}}$	O	Internal serial BUS frame signal output terminal.
23	I2C-SDA	I/O	IIC data signal input/output terminal to E-VOL/EEP-ROM/VDD-IC.
24	I2C-SCL	O	IIC clock signal output terminal to E-VOL/EEP-ROM/VDD-IC.
25	SYS-SCL(RDS)	O	RDS-IIC clock signal output terminal.
26	SYS-SDA(RDS)	I/O	RDS-IIC data signal input/output terminal.
27	DISC SW1	I	Mechanism Disc insertion detection SW1 input terminal.
28	DISC SW2	I	Mechanism Disc insertion detection SW2 input terminal.
29	$\overline{\text{DIMMER}}$	I	DIMMER detection signal input terminal. (L : DIMMER ON)
30	FAN-CONT	O	Cooling FAN rotation ON/OFF control signal output terminal.
31	V-CONT	O	DVD Mechanism power supply control output terminal.
32	EJECT IN	I	Eject direct access key input terminal. (L : EJECT)
33	NOSE-POWER	O	NOSE POWER output terminal.
34	$\overline{\text{SYS-RESET}}$	I	System RESET signal input terminal.
35	SUB-CLK	-	Crystal connect terminal for sub clock OSC. (32.768KHz)
36			
37	REGC	-	Capacitor (0.1uF/6.3V) connect terminal.
38	MAIN-CLK	-	Crystal connect terminal for main system clock OSC. (19.9465MHz)
39			
40	VSS	-	GND connect terminal.
41	VDD	-	VDD+5V connect terminal.
42	NC	-	No connect terminal.
43	$\overline{\text{DISP-RESET}}$	O	Display u-COM RESET signal output terminal.
44	$\overline{\text{AUTO ADJ}}$	I	7511 adjustment Mode input terminal.
45	NAVI ON-5V	O	NAVI ACC+5V power supply control signal output terminal.

No.	Symbol	I/O	Terminal Description
46	F-SHIFT	O	V3 power supply PWM control variable output terminal.
47	DOOR-LED	O	Door light signal output terminal.
48	MECH-MUTE	I	MUTE signal input terminal from DVD Mechanism. (H : MUTE)
49	$\overline{\text{I2C-RST}}$	O	IIC RESET signal output terminal to VDD-IC.
50	VHH LV-1	O	VHH voltage level control terminal.
51	VHH LV-2		
52	EL-ON	O	OELD supply power supply control output terminal.
53	EJECT OUT	O	Eject signal output terminal to NAVI card. (H : EJECT)
54	NV ADET	O	ACC DET output signal terminal to NAVI. (H : more than ACC 8.5V)
55	NV BDET	O	BATT DET output signal terminal to NAVI. (H : more than BATT 8.5V)
56	A-St	O	Audio u-COM communication start signal output terminal.
57	NC	-	No connect terminal.
58	BVDD	-	VDD+5V connect terminal.
59	BVSS	-	GND connect terminal.
60	LIMIT SW1(OPEN)	I	Swing opend condition detection input terminal. (L : opened condition)
61	LIMIT SW2(CLOSE)	I	Swing closed condition detection input terminal. (L : closed condition)
62	MOTOR-REV	O	Swing reverse control output terminal.
63	MOTOR-FOR	O	Swing forward control output terminal.
64	MOTOR-CONT	O	Swing power supply control output terminal.
65	NC	-	No connect terminal.
66			
67	DAVN	I	RDS DAVN signal input terminal.
68	RDS CONT	O	RDS data input prevention control terminal of adjoining station.
69	IF-MUTE	O	IF-MUTE signal output terminal.
70	BW-CONT(NC)	-	No connect terminal.
71	FM/AM-SEL	O	FM/AM switching control signal output terminal. (H : FM, L : AM)
72	NC	-	No connect terminal.
73	VREF-CON	O	VREF control terminal.
74	AVDD	-	VDD+5V connect terminal.
75	AVSS	-	GND connect terminal.
76	AVREF-AD	-	REF+5V connect terminal.
77	T-SENS	I	P.W.Board temperature detection input terminal.
78	S-METER	I	FM/AM TUNER feild strength signal input terminal. (DC voltage)
79	PAUSE	I	RDS PAUSE signal input terminal.
80	MALTIPATH	I	RDS Decoder multipath signal input terminal.
81	NOSE-DET	I	NOSE ON detection signal input terminal.
82	ADJCH-DET	I	TUNER adjoining rejection detection signal input terminal. (DC voltage)
83	AM SD	I	AM station detector signal input terminal. (H : station ON)
84	AFC	I	Adjoining detection terminal.
85	SSTOP	I	FM station detection signal input terminal.
86	AREA1(NC)	-	No connect terminal.
87	AREA2	I	Area set up input terminal.
88	DIAG	I	NAVI DIAG Mode signal input terminal. (H : DIAG Mode)
89	$\overline{\text{A-MUTE}}$	O	Audio MUTE control signal output terminal.
90	BDET-5.2V	I	Battery voltage 5.2V detection input terminal.
91	A-HOLD	I	ACC voltage detection signal input terminal.
92	BUS-IRQ	I	Ai-NET BUS interrupt terminal.
93	A-St(NC)	-	No connect terminal.

No.	Symbol	I/O	Terminal Description
94	N-St	I	Audio u-COM communication start signal input terminal.
95	$\overline{\text{IS-BUS-FIN}}$	I	Internal serial BUS frame signal input detection terminal.
96	REMOCON	I	Remote control signal input terminal.
97	D-Rx	I	Audio u-COM data input terminal.
98	D-Tx	O	Audio u-COM data output terminal.
99	A-CLK	O	Audio u-COM CLK output terminal.
100	RDS-RX	I	RDS monitor data input terminal.

M30803FGGP : IC901

No.	Symbol	I/O	Terminal Description
1	K06	O	Key matrix scan signal output terminal.
2	ENCO-1	I	Rotary encoder inner axis-A input terminal.
3	ENCO-2	I	Rotary encoder inner axis-B input terminal.
4	ENCO-3	I	Rotary encoder outside axis-A input terminal.
5	ENCO-4	I	Rotary encoder outside axis-B input terminal.
6	BYTE	I	External data BUS width switching input terminal. (connect VSS) (16 Bit width)
7	CNVSS	-	Processor switching input terminal. (connect VSS) (extension Mode)
8	AMBER	O	Lighting switching signal output terminal.
9	GREEN		
10	$\overline{\text{RESET}}$	I	System RESET input terminal.
11	XOUT	O	Crystal connect terminal for main system clock OSC. (20MHz)
12	VSS	-	GND potential supply terminal.
13	XIN	I	Crystal connect terminal for main system clock OSC. (20MHz)
14	VCC	-	+5V power supply supply terminal.
15	PUSH-SW	I	Rotary encoder PUSH-SW input terminal.
16	NAVI-CS	I	NAVI u-COM communication start signal input terminal.
17	FIN	I	IS-BUS FIN input terminal.
18	$\overline{\text{YD}}$	I	OELD communication ERROR watch-dog signal input terminal.
19	RY/$\overline{\text{BY}}$	I	External ROM RY/BY signal input terminal.
20	EXCLK	O	EXCLK output terminal for OELD driver IC (M66710FP).
21	K05	O	Key matrix scan signal output terminal.
22	K04		
23	K03		
24	K02		
25	K01		
26	$\overline{\text{DIMMER}}$	O	OELD Unit DIMMER signal output terminal.
27	AUDIO-RX	I	IS-BUS Rx input terminal.
28	AUDIO-TX	O	IS-BUS Tx output terminal.
29	F-TX	O	Flash writing Tx output terminal.
30	F-RX	I	Flash writing Rx input terminal.
31	SCLK	I	Flash writing SCLK input terminal.
32	BUSY	O	Flash writing BUSY output terminal.
33	FOUT	O	IS-BUS FOUT output terminal.
34	NAVI-DATA	O	NAVI u-COM communication data signal output terminal.
35	NAVI-CLK	O	NAVI u-COM communication clock signal output terminal.
36	CON-RESET	O	RESET output terminal for OELD driver IC (M66710FP).
37	RDY	I	External ROM RDY input terminal.

No.	Symbol	I/O	Terminal Description
38	NC	-	No connect terminal.
39	$\overline{EPM}$	I	Pull-up connect terminal. (connected GND at writing)
40	NC	-	No connect terminal.
41			
42	$\overline{RD}$	O	RD output terminal for OELD driver IC (M66710FP).
43	$\overline{BHE}$	O	BHE output terminal for OELD driver IC (M66710FP).
44	$\overline{LWR}$	O	LWR output terminal for OELD driver IC (M66710FP).
45	$\overline{HWR}$	O	HWR output terminal for OELD driver IC (M66710FP).
46	MEMCS	O	Memory CS signal output terminal.
47	CE	O	External ROM CE output terminal.
48	A20	O	External ROM high-rank address/OELD driver IC (M66710FP) high-rank address output terminal.
49	A19		
50	A18		
51	A17		
52	A16		
53	A15	O	External ROM middle-rank address/OELD driver IC (M66710FP) middle-rank address output terminal.
54	A14		
55	A13		
56	A12		
57	A11		
58	A10		
59	A9		
60	VCC	-	+5V power supply supply terminal.
61	A8	O	External ROM middle-rank address/OELD driver IC (M66710FP) middle-rank address output terminal.
62	VSS	-	GND potential supply terminal.
63	A7	O	External ROM low-rank address/OELD driver IC (M66710FP) low-rank address output terminal.
64	A6		
65	A5		
66	A4		
67	A3		
68	A2		
69	A1		
70	A0		
71	D15	I/O	External ROM data-BUS input terminal. OELD driver IC (M66710FP) data-BUS input/output terminal.
72	D14		
73	D13		
74	D12		
75	D11		
76	D10		
77	D9		
78	D8		
79	D7		
80	D6		
81	D5		
82	D4		
83	D3		
84	D2		
85	D1		

No.	Symbol	I/O	Terminal Description
86	D0	I/O	External ROM data-BUS input terminal. OELD driver IC (M66710FP) data-BUS input/output terminal.
87	KI7	I	Key matrix input signal input terminal.
88	KI6		
89	KI5		
90	KI4		
91	KI3		
92	KI2		
93	KI1		
94	AVSS	-	A/D converter GND potential terminal.
95	DIR-L	O	Direction indicator LEFT output terminal.
96	VREF	-	A/D converter ANALOG potential terminal.
97	AVCC		
98	VHH-CONT	O	OELD VHH+B control output terminal.
99	EL-SENS	I	OELD temperature detection input terminal.
100	DIR-R	O	Direction indicator RIGHT output terminal.

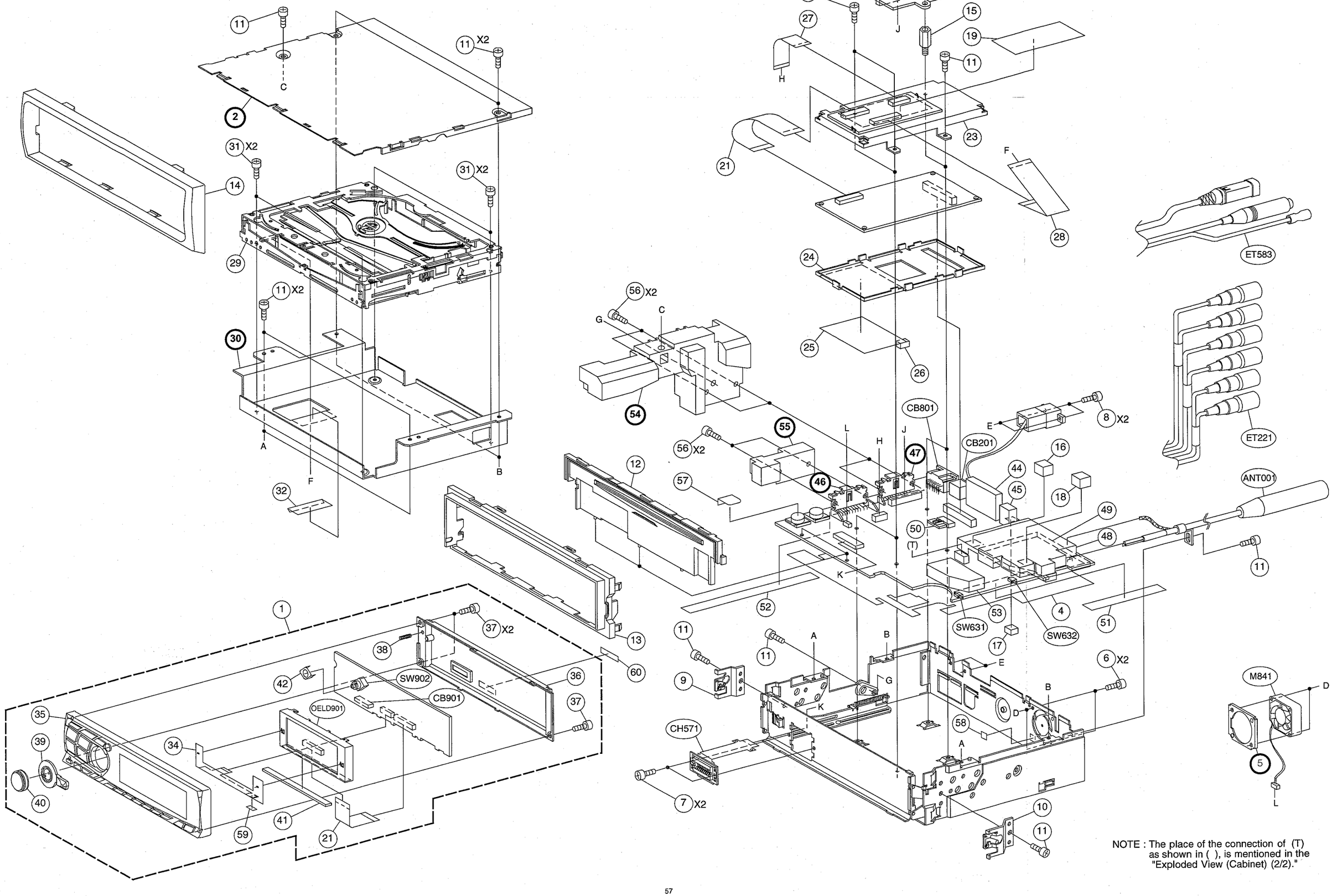
MN102HF73G : IC401 (DV33M010)

No.	Symbol	I/O	Terminal Description
1	NC	-	No connect terminal.
2			
3	CPUDT0	I/O	Data input/output-0 terminal.
4	CPUDT1	I/O	Data input/output-1 terminal.
5	CPUDT2	I/O	Data input/output-2 terminal.
6	CPUDT3	I/O	Data input/output-3 terminal.
7	VDD	-	Power supply terminal.
8	VSS	-	GND potential supply terminal.
9	CPUDT4	I/O	Data input/output-4 terminal.
10	CPUDT5	I/O	Data input/output-5 terminal.
11	CPUDT6	I/O	Data input/output-6 terminal.
12	CPUDT7	I/O	Data input/output-7 terminal.
13	/MECH_SW1	I	Mechanism SW-1 input signal LEFT detection terminal.
14	/MECH_SW2	I	Mechanism SW-2 input signal RIGHT detection terminal.
15	/MECH_SW3	I	Mechanism SW-3 input signal 12cm-RELOAD detection terminal.
16	/SODC_RES	O	MN103S26E N-RESET signal terminal
17	AMUTE	O	Audio MUTE signal terminal.
18	/MECH_SW4	I	Mechanism SW-4 input signal 8cm-RELOAD detection terminal.
19	/MECH_SW5	I	Mechanism SW-5 input signal LOAD END detection terminal.
20	/LIMIT_SW	I	LIMIT SW input signal SLED maximum inner LIMIT detection terminal.
21	GND	-	GND connect terminal.
22			
23	/WORD	I	Data BUS width set up input terminal. (using 8bit Processor Mode)
24	VDD	-	Power supply terminal.
25	MODE	I	Mode set up input terminal. (using 8bit Processor Mode)
26	NC	-	No connect terminal.
27	XI(GND)	-	Low-speed OSC input terminal. (not used, connected VSS, not dealed SOFT)
28	XO(NC)	-	Low-speed OSC output terminal. (not used, OPEN, not dealed SOFT)
29	VDD	-	Power supply terminal.

No.	Symbol	I/O	Terminal Description
30	OSCI	I	High-speed OSC input terminal.
31	OSC0	O	High-speed OSC output terminal.
32	VSS	-	GND potential supply terminal.
33	NC	-	No connect terminal.
34	/NMI(PULL-UP)	-	Pull-up connect terminal.
35	/RST	I	HARD RESET input terminal from power supply/HOST.
36 37	NC	-	No connect terminal.
38	/INT0	I	MN103S26E /INT0 signal terminal.
39	/INT1	I	MN103S26E /INT1 signal terminal.
40	/CPUIRQ	I	MN103S26E /CPUIRQ signal terminal.
41	/EJECT	I	Eject key terminal. (using interrupt at Stand-by)
42	/LOAD_SW	I	OR Signal input terminal of Mechanism SW-1/SW-2. (using interrupt at STAND-BY)
43	/MRST	I	NM103S26E N-MRST input terminal.
44	/SLEEP	I	SLEEP Mode signal input terminal from HOST.
45	WAIT	I	MN103S26E N-RESET/WAIT signal input terminal.
46	/WAKEUP	O	MN103S26E STAND-BY cancellation signal terminal by NTRYCL signal.
47 I 49	NC	-	No connect terminal.
50	VDD	-	Power supply terminal.
51	TEST3	O	TEST terminal.
52	TEST2		
53	TEST1		
54	TEST0		
55	FG	O	FG signal input terminal.
56	FEPSENS	O	AN8709 SENSE signal terminal.
57	CPUDTIO	O	AN8709 CPUDTIN signal terminal.
58	SCK	O	AN8709 SCK signal terminal.
59	(SBD)	I	YDC Flash writer SBD signal terminal.
60	(SBO)	I	YDC Flash writer SBO signal terminal.
61	(SBT)	I	YDC Flash writer SBT signal terminal.
62	UDRX	I	UART receiving signal terminal. (DEBUG side : not used)
63	UDTX	O	UART transmitting signal terminal. (DEBUG side)
64	FEPRES	O	AN8709 RESETsignal terminal.
65	UCRX	I	UART receiving signal terminal. (COMMAND side)
66	UCTX	O	UART transmitting signal terminal. (COMMAND side)
67	NC	-	No connect terminal.
68	VDD	-	Power supply terminal.
69	VSS	-	GND potential supply terminal.
70	AVSS	-	ANALOG GND potential supply terminal.
71	Vref-	-	ANALOG standard (-) voltage terminal.
72	HALFSENS	I	VHALF power supply terminal.
73	SLEDSENS	I	SLED control signal input terminal.
74	HITEMP	I	High-temperature signal input terminal.
75	LOTEMP	I	Low-temperature signal input terminal.
76 I 78	NC	-	No connect terminal.

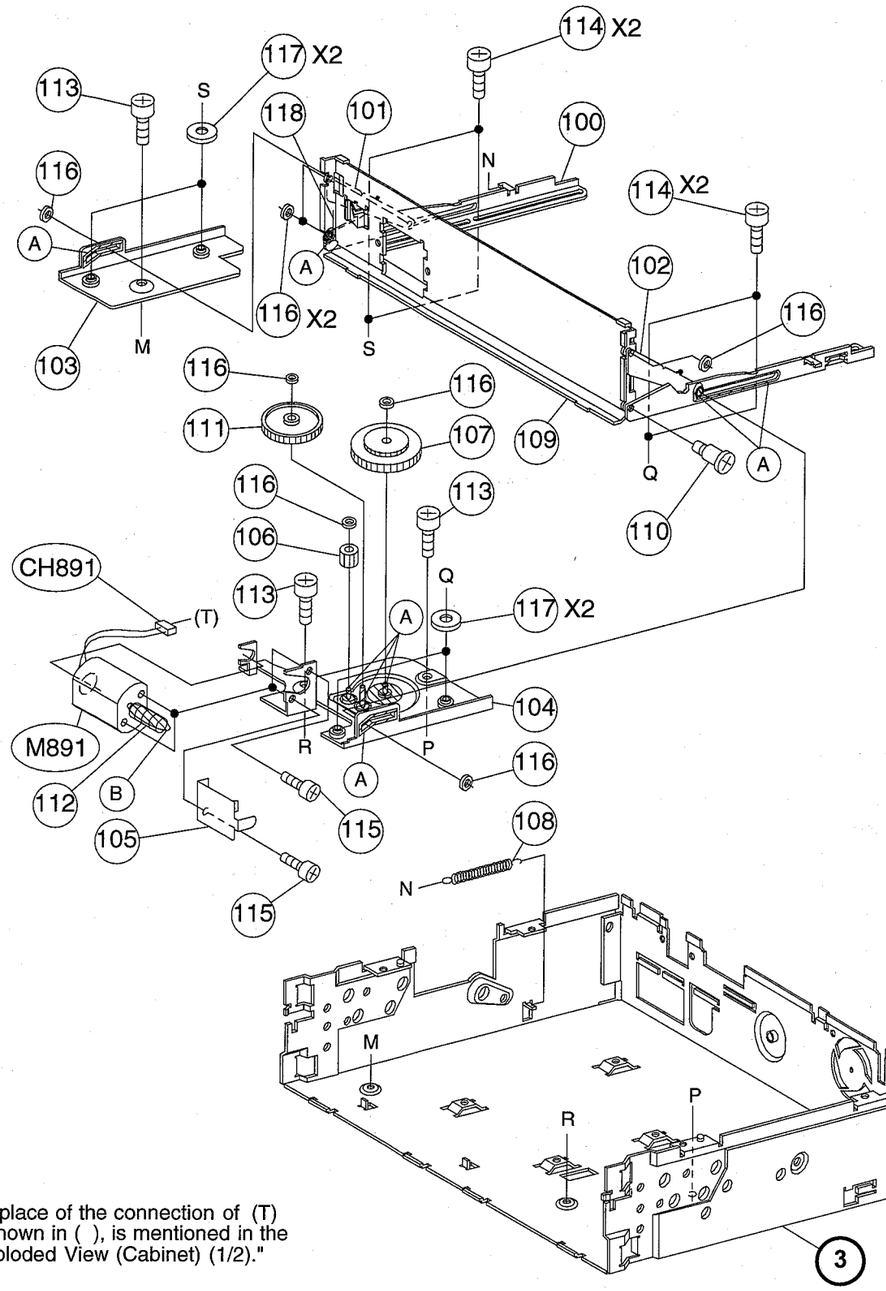
No.	Symbol	I/O	Terminal Description
79	MODE_SEL	I	Discrimination input terminal of correspondence both 8cm Disc and CD (connected pull-up)/or not (connected pull-down).
80	SDA	I/O	E2P-ROM SDA signal terminal.
81	SCL	O	E2P-ROM SCL signal terminal.
82	DCFLTCNT	O	FEP filter switching terminal.
83	HFMCNT	O	High-frequency upon another control output terminal. (connected pull-down)
84	DRVCNT1	O	Driver logic control output-1 terminal. (connected pull-down by internal IC)
85	DRVCNT2	O	Driver logic control output-2 terminal. (connected pull-down by internal IC)
86	VREF+	-	Analog standard (+) voltage terminal.
87	AVDD	-	Analog power supply terminal.
88	PLAYA	O	SLED-2 driving control D/A output-A terminal.
89	PLAYB	O	4 SLED-2 driving control D/A output-B terminal.
90	LOADOUT	O	LOAD MOTOR control D/A output terminal.
91 I 93	NC	-	No connect terminal.
94	/WE	O	MN103S26E WRITE ENABLE output terminal.
95	NC	-	No connect terminal.
96	/RE	O	MN103S26E READ ENABLE output terminal.
97	/CS	O	MN103S26E CHIP SELECT output terminal.
98	VDD	-	Power supply terminal.
99	VSS	-	GND potential supply terminal.
100 I 102	NC	-	No connect terminal.
103	CPUADR0	O	Address output-0 terminal.
104	CPUADR1	O	Address output-1 terminal.
105	CPUADR2	O	Address output-2 terminal.
106	CPUADR3	O	Address output-3 terminal.
107	CPUADR4	O	Address output-4 terminal.
108	CPUADR5	O	Address output-5 terminal.
109	CPUADR6	O	Address output-6 terminal.
110	CPUADR7	O	Address output-7 terminal.
111	CPUADR8	O	Address output-8 terminal.
112 113	NC	-	No connect terminal.
114	CPUADR9	O	Address output-9 terminal.
115	CPUADR10	O	Address output-10 terminal.
116	CPUADR11	O	Address output-11 terminal.
117	CPUADR12	O	Address output-12 terminal.
118	CPUADR13	O	Address output-13 terminal.
119	VDD	-	Power supply terminal.
120	NC	-	No connect terminal.
121	CPUADR14	O	Address output-14 terminal.
122	CPUADR15	O	Address output-15 terminal.
123	CPUADR16	O	Address output-16 terminal.
124	CPUADR17	O	Address output-17 terminal.
125 I 128	NC	-	No connect terminal.

Exploded View (Cabinet) (1/2)



NOTE : The place of the connection of (T) as shown in ( ), is mentioned in the "Exploded View (Cabinet) (2/2)."

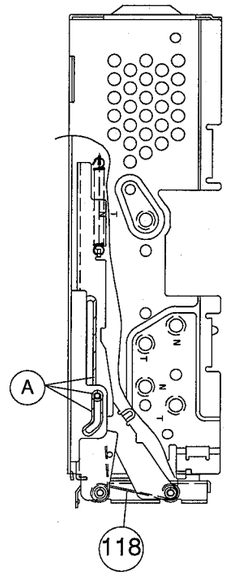
Exploded View (Cabinet) (2/2)

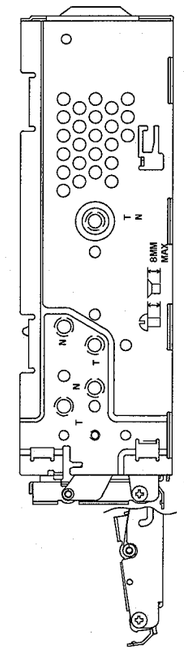


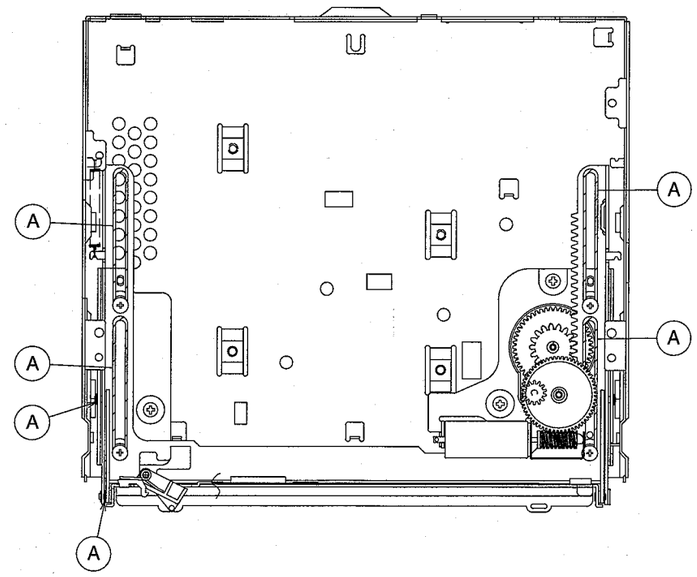
NOTE : The place of the connection of (T) as shown in ( ), is mentioned in the "Exploded View (Cabinet) (1/2)."

.....point of GREASE applied.

(A)	GREASE, E-PAST (11S42419J09)
(B)	GREASE, G-8007 (11S41558Y01)

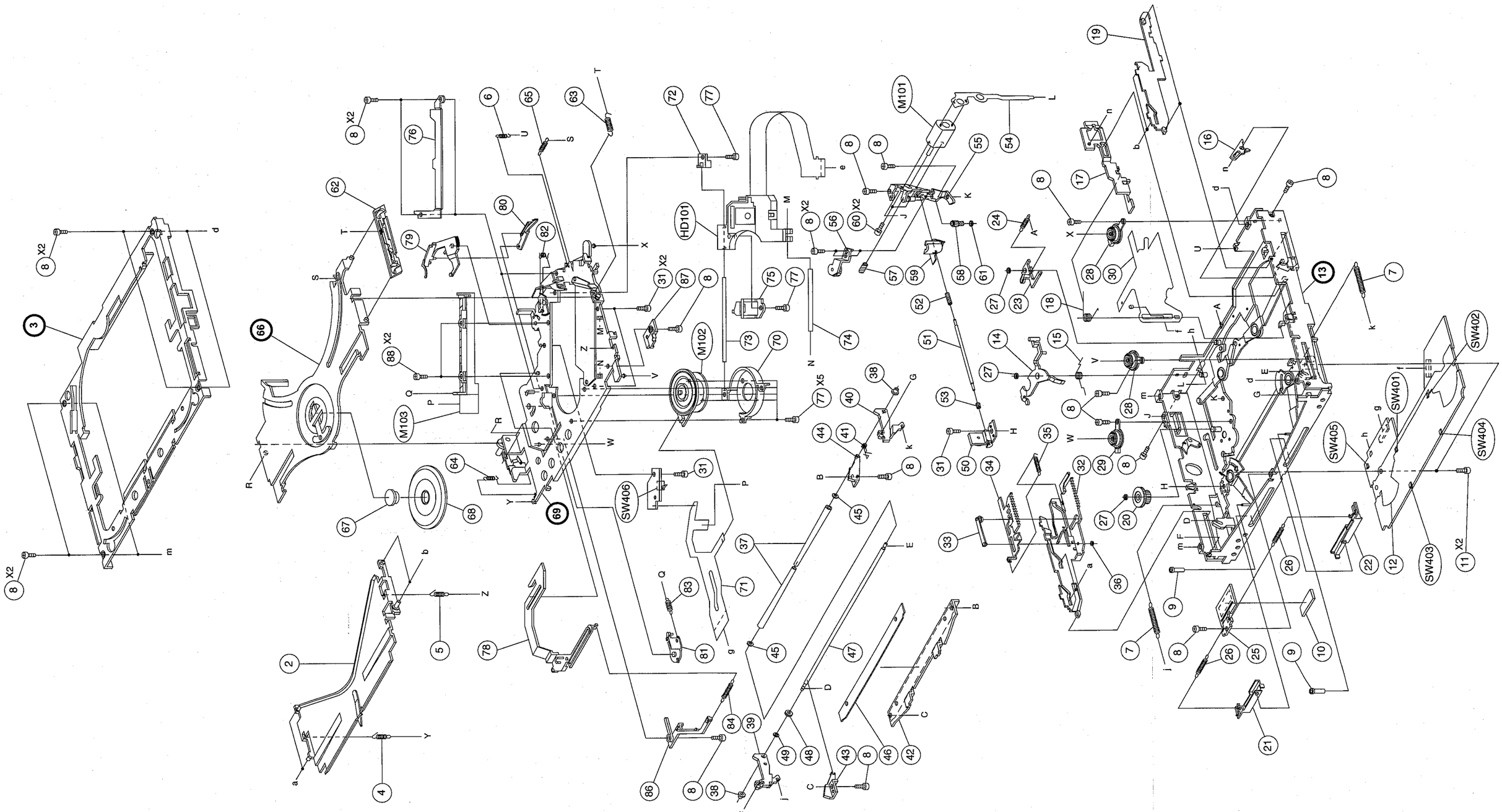






Exploded View (DVD Deck Mechanism)

(DV33M010)



Cabinet Assembly Parts List

Note : The part that has not PART NUMBER will not be supplied.

1	01V66400Y13	ASSY,NOSE UNIT
2	----------	COVER,TOP
3	----------	CHAS,BASE
4	14B50117Y01	INSULATOR,MAIN
5	----------	BKT,FAN
6	03S94385F91	SCR,NYLOK M2X14
7	03S94385F77	SCR,NYLOK M1.7X3
8	03S60822Y18	SCR,S-T 2.6X8 ZN A
9	07D91595W03	BKT,SIDE(L) ASSY
10	07D91595W04	BKT,SIDE(R) ASSY
11	03S60822Y11	SCR,S-T 2.6X5 ZN A
12	13B41611Y01	NOSE,BASE ASSY
13	13D21372Y01	NOSE,BASE COVER
14	33C50062Y01	FACE,PLATE
15	47A21013Y01	SHAFT,A
16	75S50638W51	CUSH,RUB 10X10T10
17	75S40755Y47	CUS,RUB 4X4XT4
18	75T25010Y52	CUSHION,SHIELD 10-13
19	14S31545Y25	INS,CVR 70X32XT0.025
21	30T25132Y28	FFC,SML2CD-30X30-P.5
23	15C50058Y01	SHIELD,NAVI TOP
24	15C50059Y01	SHIELD,NAVI BOTTOM
25	14S31545Y15	INS,CVR 55X40XT0.025
26	75S40755Y64	CUS,RUB 10X6XT6.5
27	30T25132Y19	FFC,SML2CD-20X35-P.5
28	30T25132Y29	FFC,SML2CD-50X90-P.5
29	81D51392Y01	DV33M010,DVD MECH
30	----------	BKT,CD
31	03S60822Y07	SCR,S-T 2.6X4 ZN A
32	14S50096Y26	INS,CVR 35X20XT0.05
34	01T45695Y01	ASSY,FPC SHEET SW
35	13C50018Y03	NOSE,PIECE ASSY
36	13D40822Y01	NOSE,BOTTOM
37	03S68555F20	SCR,WAVE M1.7X5
38	41A50111W10	SPRING,KNOB
39	36C41927Y01	KNOB,SHUTTLE
40	36C41928Y01	KNOB,ROTARY ASSY
41	14S31545Y24	INS,CVR 99X5XT1.0
42	15A41994Y01	BKT,ENC
44	01T45351Y01	ASSY,GPS RCV V-173 (GR591)
45	01T45355Y02	ASSY,GYRO UNIT V-245 (GS592)
46	----------	BKT,IC
47	----------	BKT,IC
48	15B50056Y01	SHIELD,TU TOP
49	15B50057Y01	SHIELD,TU BOTTOM
50	36A70327W01	KNOB,SLIDE
51	14S31545Y16	INS,CVR 59X8XT0.1
52	14S31545Y17	INS,CVR 100X8XT0.1
53	15B50101Y01	SHIELD,PWR
54	----------	HEAT,SINK L
55	----------	HEAT,SINK S
56	03S60822Y22	SCR,S-T 2.6X14 ZN A
57	26A31722Y01	SHIELD,PLATE
58	14S50096Y55	INS,CVR 10X5XT0.15
59	14S50096Y29	INS,CVR 5X10T0.1
60	64A51492W01	PLATE,SERIAL NO.
100	07B50045Y01	BKT,SLIDER
101	07A01754K01	BKT,ARM(L)
102	07A01754K02	BKT,ARM(R)
103	07A50046Y01	BKT,BASE L
104	07C50047Y01	BKT,BASE R
105	41A50048Y01	SPRING,WORM
106	44A50049Y01	GEAR,ID
107	44A50050Y01	GEAR,SLIDER
108	41A50060Y01	SPRING,SLIDE
109	01C21375Y04	ASSY,BKT F BASE
110	03A20851Y02	SCR,SLIDER
111	44T25192Y01	GEAR,CLUTCH ASSY
112	44A90467W02	GEAR,WORM
113	03S94385F13	SCR,NYLOK M2.6X3
114	03S60820Y06	SCR,MCH 2X3.5 ZNNA
115	03S68259F23	SCR,P-LOCK M2X3
116	04B41345P54	WASHER,LOCK
117	43A50493Y01	BUSH,SLIDER
118	41A50492Y01	SPRING,NOSE

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DVD Deck Mechanism Assembly Parts List

Note : The part that has not PART NUMBER will not be supplied.

2	01A51490Y01	ASSY,RIV GUIDE TOP
3	----------	CHASSIS,TOP
4	41A60338Y01	SPRING,DRIVE F-L
5	41A60339Y01	SPRING,DRIVE F-R
6	41A60340Y01	SPRING,DRIVE R
7	41A60344Y01	SPRING,LEV ROLL-L
8	03S94385F19	SCR,NYLOK M2X2.5
9	43A51233Y01	ROLLER,DISC PIN
10	14T60573Y01	INSULATOR,DRIVER
11	03S72235F76	SCR,MCH M2X2 SN
12	14B51711Y01	INSULATOR,PWB MAIN
13	----------	ASSY,RIV CHAS BASE
14	45C51003Y02	LEVER,TRIGER MAIN
15	41A51395Y01	SPRING,LEV TRG MAIN
16	45A50833Y01	LEVER,LINK SLDR (R)
17	45B51221Y01	SLIDER,LOCK (R2)
18	41A51396Y01	SPRING,SLD LOCK(R2)
19	45C51237Y11	SLIDER,LOCK(R1)
20	44A50829Y01	GEAR,LOAD (E)
21	45B50834Y11	SLIDER,DISC SW(L)
22	45B50835Y01	SLIDER,DISC SW (R)
23	45B50838Y01	LEVER,LOCK (RC)
24	41A60343Y01	SPRING,LEV LOCK-RC
25	07A51206Y01	BKT,DRIVE IC
26	41A60341Y01	SPRING,LEV DISC
27	04B41345P14	WASH,L. 2.1X4X0.25
28	75C60456Y01	DAMPER,DV-TM
29	75C60456Y02	DAMPER,DV-TM
30	14A51712Y01	INSULATOR,FPC
31	03S94385F07	SCR,NYLOK M2X2
32	45D51236Y01	SLIDER,LOCK (L)
33	01A51491Y01	ASSY,RIV LEV ASST
34	01B51315Y01	ASSY,SLIDER TRIGER
35	41A60348Y01	SPRING,SLD TRIGER
36	04B41345P01	WASH,1.2X3.5X0.25
37	49A51397Y01	ROLLER,DV-TM
38	43A51228Y11	BUSH,ARM GUIDE
39	45A51218Y01	LEVER,ROLLER (L)
40	45A51219Y01	LEVER,ROLLER (R)
41	41A60360Y01	SPRING,ARM GUIDE
42	45B60964Y01	ARM,DISC GUIDE
43	45B60959Y11	ARM,DISC GUIDE-L
44	45B60960Y11	ARM,DISC GUIDE-R
45	04S40075G09	WASH,2.6X4.7X0.25
46	14A61435Y01	INSULATOR,ARM DISC
47	47A51349Y01	SHAFT,ROLLER
48	44A50832Y01	GEAR,ROLLER
49	04B41345P02	WASH,1.7X3.5X0.25
50	01A51485Y01	ASSY,RIV BKT LD-F
51	47A51346Y01	SHAFT,LOAD

Electrical Parts List

*********MAIN P.W.Board**

=======IC's		
IC001	51T65382Y01	TDA7518-QT
IC071	51T93333F02	NJM2904V-TE2-SE2
IC086	51T15731W10	TC7S66F-TE85L-CP
IC087	51T15731W10	TC7S66F-TE85L-CP
IC091	51T15132Y02	SAA6588T-SE9
IC261	51T45495Y02	TA8270H (A)-ZS
IC281	51T25576W07	NJM4580V-TE2-SE2
IC282	51T25576W07	NJM4580V-TE2-SE2
IC501	51T65493Y02	MTP,D70F3032BGF
IC521	51T55070W05	MB88385CPF-ER-SE9
IC581	51T45360Y01	TC7WH14FK-TE85L-CP
IC651	51T96490F02	NJM3404AV-TE1-SE2
IC811	51T45336Y01	L5952-ZS
IC851	51T15510W01	IC ,MC34063AML-SPD
IC864	51T35410Y01	S-817A33ANB-T2-CP
IC871	51T75523W01	TL5001-SE6
IC881	51T15572Y10	LM2576S-ADJ-NEA
IC891	51T25448Y01	BA6219BFP-Y-E2-SE9

=======Transistors/FET's		
Q001	48T15657Y01	TR,2SA1774-TL-CP
Q002	48T45594W16	TR,XN1A311-TX-CP
Q003	48T16465W01	FET,CP.3SK195-Y-R
Q004	48T15606Y01	FET,FC18-TL-CP
Q005	48T25137Y05	TR,UN9215J-TX-CP
Q062	48T25137Y02	TR,UN9212J-TX-CP
Q081	48T45594W12	TR ,XN1A312-TX-CP
Q086	48T25137Y02	TR,UN9212J-TX-CP
Q221	48T25317Y01	TR,XN0F256-TX-CP
Q231	48T25317Y01	TR,XN0F256-TX-CP
Q241	48T25317Y01	TR,XN0F256-TX-CP
Q251	48T25317Y01	TR,XN0F256-TX-CP
Q261	48T25137Y02	TR,UN9212J-TX-CP
Q262	48T25137Y02	TR,UN9212J-TX-CP
Q263	48T25136Y02	TR,UN9112J-TX-CP
Q521	48T25136Y01	TR,UN9111J-TX-CP
Q561	48T25137Y02	TR,UN9212J-TX-CP
Q562	48T55462Y02	TR,2SB1132-R-T100-E2
Q581	48T25137Y01	TR,UN9211J-TX-CP
Q601	48T15657Y01	TR,2SA1774-TL-CP
Q602	48T25137Y02	TR,UN9212J-TX-CP
Q603	48T25137Y01	TR,UN9211J-TX-CP
Q604	48T25137Y01	TR,UN9211J-TX-CP
Q611	48T25136Y16	TR,UN911LJ-TX-CP
Q615	48T25137Y02	TR,UN9212J-TX-CP
Q621	48T25736Y01	TR,UMC2N-TR-CP
Q622	48T25736Y01	TR,UMC2N-TR-CP
Q623	48T25137Y02	TR,UN9212J-TX-CP
Q624	48T25137Y02	TR,UN9212J-TX-CP
Q625	48T45594W12	TR ,XN1A312-TX-CP
Q626	48T25137Y02	TR,UN9212J-TX-CP
Q627	48T25137Y02	TR,UN9212J-TX-CP
Q628	48T45594W12	TR ,XN1A312-TX-CP
Q631	48T25137Y13	TR,UN921FJ-TX-CP
Q811	48T45594W12	TR ,XN1A312-TX-CP
Q825	48T63420F01	TR,2SA1037AK-146 -CP
Q826	48T84366F01	TR,2SB1243-PQR-V2-RD
Q827	48T62967F03	TR,DTC124EKA-T146-CP
Q828	48T62967F01	TR,DTC143EKA-T146-CP
Q841	48T25720W01	TR,2SB1198K-QR-46-CP
Q842	48T25137Y02	TR,UN9212J-TX-CP
Q846	48T45388Y01	TR,2SA1797-T100-E2
Q847	48T25137Y01	TR,UN9211J-TX-CP
Q851	48T55067Y01	TR,2SC4672-T100-E2
Q852	48T45388Y01	TR,2SA1797-T100-E2
Q853	48T25137Y01	TR,UN9211J-TX-CP
Q861	48T80612F01	CP.2SB1188-QR-101-E2
Q862	48T25137Y01	TR,UN9211J-TX-CP
Q865	48T45388Y03	TR,2SA1797-Q-T100-E2
Q866	48T25137Y16	TR,UN921LJ-TX-CP
Q871	48T25137Y01	TR,UN9211J-TX-CP
Q872	48T45230W03	TR,FMY1A-T148-CP
Q873	48T75133W01	FET,2SJ327-Z-E1-E5
Q881	48T25137Y02	TR,UN9212J-TX-CP
Q897	48T92368F04	TR,2SD1760 R-E5
Q898	48T92368F04	TR,2SD1760 R-E5
Q899	48T45594W12	TR ,XN1A312-TX-CP
Q1851	48T55462Y02	TR,2SB1132-R-T100-E2
Q1852	48T25137Y02	TR,UN9212J-TX-CP

=======Diodes		
D001	48T15707Y01	DIO,MA133-TX-CP
D002	48T65157W01	DIO,VAR KV1410-XX
D003	48T65157W01	DIO,VAR KV1410-XX
D004	48T65157W01	DIO,VAR KV1410-XX
D005	48T25619Y01	DIO,1SV316-TB-CP
D013	48T68806F01	DIO,1SV172/L-CP
D501	48T25564Y01	DIO,MA113-TX-CP
D521	48T25665Y01	DIO,1SS355-TE17-CP
D581	48T15707Y01	DIO,MA133-TX-CP
D582	48T15707Y01	DIO,MA133-TX-CP
D601	48T15706Y02	DIO,MA132WK-TX-CP
D611	48T15706Y02	DIO,MA132WK-TX-CP
D621	48T25665Y01	DIO,1SS355-TE17-CP
D651	48T15707Y01	DIO,MA133-TX-CP
D665	48T25593Y01	DIO,S1G-6904-E1
D801	48T25593Y01	DIO,S1G-6904-E1
D821	48T85270W02	DIO,MPG06G-H5
D826	48T85357W01	DIO,1PS226-CP
D851	48T45286Y01	DIO,SHT RB050L-40-E1
D864	48T55105Y01	DIO,SHT RB161M-20-CP
D871	48T45286Y01	DIO,SHT RB050L-40-E1
D881	48T45286Y01	DIO,SHT RB050L-40-E1
D891	48T25274Y01	DIO,MA4S159-TX-CP
ZD521	48T15541Y51	DIO,ZEN MAZS0560L-CP
ZD573	48T35392Y06	DIO,ZEN RLZ7.5A-CP
ZD574	48T35392Y06	DIO,ZEN RLZ7.5A-CP
ZD618	48T15541Y50	DIO,ZEN MAZS0510H-CP
ZD621	48T15541Y59	DIO,ZEN MAZS0680H-CP
ZD801	48T25064Y02	DIO,ZEN ZSH5MA27A-ED
ZD891	48T15541Y44	DIO,ZEN MAZS0430H-CP
ZD898	48T15542Y11	DIO,ZEN MA1Z120-E1

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=======Coils		
L001	24T25164Y17	IND,FSLM2520 2R2J-CP
L002	24T25164Y21	IND,FSLM2520 4R7J-CP
L003	24T35286Y01	IND,MG56 523J-DB
L004	24S45109Y08	IND,MA2125 15RK-CP
L005	24T25164Y17	IND,FSLM2520 2R2J-CP
L006	24T15758Y19	IND,NLFC 102K-CP
L007	24T25164Y35	IND,FSLM2520 68RJ-CP
L009	24T25164Y05	IND,FSLM2520 R22J-CP
L010	24T65176W37	IND,NL453232 102J-E2
L013	24T25164Y17	IND,FSLM2520 2R2J-CP
L521	24T95457W18	FBI,BLM21PG221SH1-CP
L581	24T95456W12	FBI,BLM18AG102SH1-CP
L582	24T95456W12	FBI,BLM18AG102SH1-CP
L592	24T95456W12	FBI,BLM18AG102SH1-CP
L595	24T95456W01	FBI,BLM18PG300SH1-CP
L596	24T95456W12	FBI,BLM18AG102SH1-CP
L597	24T95456W01	FBI,BLM18PG300SH1-CP
L813	24T25164Y25	IND,FSLM2520 10RJ-CP
L852	24T35196Y15	IND,SLF12555 152M-EA
L853	24T25368Y13	IND,SLF10145 102M-EA
L854	24T95457W18	FBI,BLM21PG221SH1-CP
L865	24T35196Y08	IND,SLF12555 101M-EA
L871	24T35196Y08	IND,SLF12555 101M-EA
L872	24T95457W18	FBI,BLM21PG221SH1-CP
L881	24T35196Y10	IND,SLF12555 221M-EA
L882	24T35196Y08	IND,SLF12555 101M-EA
L883	24T95457W18	FBI,BLM21PG221SH1-CP
L884	24T45379Y06	IND,D53LC 10RM-E2
VT001	24T45428Y02	COIL,ANTI FM 5KR -DB
VT002	24T45429Y02	COIL,RF FM 5KR-DB
VT003	24T45427Y02	COIL,OSC F/A 5KR -DB
VT004	24T45563Y01	COIL,IFT1 F/A 5PG-DB
VT005	24T45563Y02	COIL,IFT2 AM 5PG -DB

=======Filters		
CF001	91T35405W03	CERFIL,SFELA10M7 -RD
CF002	91T35405W03	CERFIL,SFELA10M7 -RD
CF003	91T35405W03	CERFIL,SFELA10M7 -RD
L021	91T15509Y08	EMI,BK1608HM102-CP
L022	91T15509Y08	EMI,BK1608HM102-CP
L091	91T15509Y08	EMI,BK1608HM102-CP
L092	91T15509Y08	EMI,BK1608HM102-CP
L501	91T15509Y08	EMI,BK1608HM102-CP
L502	91T15509Y08	EMI,BK1608HM102-CP
L503	91T15509Y08	EMI,BK1608HM102-CP
L504	91T15509Y08	EMI,BK1608HM102-CP
L505	91T15509Y08	EMI,BK1608HM102-CP
Z581	91T45343Y02	EMI,CKD510JB1H221SCP
Z582	91T45343Y02	EMI,CKD510JB1H221SCP

=======Crystals		
XL001	91T45560Y01	XTL,HC-49 10.25M -R5
XL002	91T15651Y01	CERFIL,CFWLA450K -DB
XL091	91T45637Y01	XTL,CMR309T 4.33M-E9
XL501	91T45637Y13	XTL,CMR309T 19.9M-E9
XL502	91T65148Y01	XTL,CMR200T 32.7K-E5
XL521	91T65149Y01	XTL,CMR310T 4.00M-E9

=======Fuses		
F846	65T35516Y09	FUSE,TF16N 2.00A -CP
F852	65T35516Y09	FUSE,TF16N 2.00A -CP
F865	65T35516Y09	FUSE,TF16N 2.00A -CP

=======LED's		
LD631	48T65477W05	LED,SML-010DTT87 -CP (ORG)
LD632	48T65477W05	LED,SML-010DTT87 -CP (ORG)

=======Surge Protector		
SA001	48T45306Y01	VST,CSA30-201M-CP

=======Switch		
SW201	40T45282W02	SW,SLIDE SLD-42-508X (Ai-NET*NORM/ (EQ/DIV))

=======Thermistor		
TH641	48T25250Y06	TMT,ERTJ1VR223G-CP

=======Capacitors		
C001	08S45676W80	CAP,CER 223K-B1E -CP
C002	08S45677W12	CAP,CER.10RD-CH1H-CP
C003	08S45677W60	CAP,CER 102J-CH1H-CP
C004	08S45677W09	CAP,CER 7R0D-CH1H-CP
C005	08S45677W13	CAP,CER 11RJ-CH1H-CP
C006	08S45677W02	CAP,CER 1R0C-CH1H-CP
C007	08S45677W07	CAP,CER.5R0C-CH1H-CP
C009	08S45677W10	CAP,CER 8R0D-CH1H-CP
C010	08S45676W73	CAP,CER.103K-B1H -CP
C011	08S45676W85	CAP,CER 104K-B1C -CP
C012	08S45676W69	CAP,CER.472K-B1H -CP
C013	08S45676W73	CAP,CER.103K-B1H -CP
C014	08S45677W60	CAP,CER 102J-CH1H-CP
C015	08S45677W32	CAP,CER.68RJ-CH1H-CP
C016	08S45677W36	CAP,CER.101J-CH1H-CP
C017	08S45676W73	CAP,CER.103K-B1H -CP
C020	08S45676W85	CAP,CER 104K-B1C -CP
C021	08S45676W80	CAP,CER 223K-B1E -CP
C022	08S45676W68	CAP,CER.392K-B1H -CP
C023	08S45677W38	CAP,CER 121J-CH1H-CP
C024	08S45676W73	CAP,CER.103K-B1H -CP
C025	08S45676W73	CAP,CER.103K-B1H -CP
C026	08S45676W80	CAP,CER 223K-B1E -CP
C027	08S45676W85	CAP,CER 104K-B1C -CP
C028	08S45676W85	CAP,CER 104K-B1C -CP
C031	08S45676W80	CAP,CER 223K-B1E -CP
C032	08S45677W32	CAP,CER.68RJ-CH1H-CP
C033	08S45676W67	CAP,CER.332K-B1H -CP
C034	08S45676W85	CAP,CER 104K-B1C -CP
C035	08S45677W02	CAP,CER 1R0C-CH1H-CP
C036	08S45677W20	CAP,CER.22RJ-CH1H-CP
C037	08S45677W16	CAP,CER.15RJ-CH1H-CP
C039	08S45676W85	CAP,CER 104K-B1C -CP
C040	08S45676W73	CAP,CER.103K-B1H -CP
C041	08S45676W65	CAP,CER.222K-B1H -CP
C042	08S45677W60	CAP,CER 102J-CH1H-CP
C043	08S45676W73	CAP,CER.103K-B1H -CP

C044	08S45676W80	CAP,CER 223K-B1E -CP
C045	08S45676W80	CAP,CER 223K-B1E -CP
C046	08S45676W80	CAP,CER 223K-B1E -CP
C047	08S45677W09	CAP,CER 7R0D-CH1H-CP
C048	08S45677W08	CAP,CER.6R0D-CH1H-CP
C049	08S45677W08	CAP,CER.6R0D-CH1H-CP
C050	08S45676W73	CAP,CER.103K-B1H -CP
C051	08S45676W73	CAP,CER.103K-B1H -CP
C052	08S45677W12	CAP,CER.10RD-CH1H-CP
C053	08S45676W80	CAP,CER 223K-B1E -CP
C054	08S45676W73	CAP,CER.103K-B1H -CP
C055	08S45677W36	CAP,CER.101J-CH1H-CP
C056	08S45676W80	CAP,CER 223K-B1E -CP
C057	08S45676W73	CAP,CER.103K-B1H -CP
C060	08S35374W08	CAP,CER 474K-B1C -CP
C061	08S35374W08	CAP,CER 474K-B1C -CP
C062	08S35349Y13	CAP,CER 684K-B1A -CP
C063	08S45676W85	CAP,CER 104K-B1C -CP
C064	08S45677W60	CAP,CER 102J-CH1H-CP
C065	08S45676W75	CAP,CER.153K-B1H -CP
C068	08S45677W28	CAP,CER 47RJ-CH1H-CP
C069	08S45676W93	CAP,CER 224K-B1A -CP
C071	08T81833F10	CAP,CER 106K-B0J -CP
C072	08T81833F10	CAP,CER 106K-B0J -CP
C073	08S45676W93	CAP,CER 224K-B1A -CP
C074	08S45676W85	CAP,CER 104K-B1C -CP
C075	08S35349Y16	CAP,CER 105K-B1A -CP
C076	08S35349Y16	CAP,CER 105K-B1A -CP
C077	08S35349Y16	CAP,CER 105K-B1A -CP
C078	08S35349Y16	CAP,CER 105K-B1A -CP
C081	08S45676W89	CAP,CER 473K-B1E -CP
C082	08S35350Y04	CAP,CER 105K-B1C -CP
C083	08S45677W36	CAP,CER.101J-CH1H-CP
C086	08S45676W85	CAP,CER 104K-B1C -CP
C091	08S45676W80	CAP,CER 223K-B1E -CP
C092	08S45676W80	CAP,CER 223K-B1E -CP
C093	08S45677W48	CAP,CER.331J-CH1H-CP
C094	08S45676W65	CAP,CER.222K-B1H -CP
C095	08S45677W54	CAP,CER 561J-CH1H-CP
C096	08S45676W80	CAP,CER 223K-B1E -CP
C097	08S45676W65	CAP,CER.222K-B1H -CP
C098	08S45677W22	CAP,CER.27RJ-CH1H-CP
C099	08S45677W22	CAP,CER.27RJ-CH1H-CP
C221	08T81833F11	CAP,CER 225K-B1C -CP
C222	08T81833F11	CAP,CER 225K-B1C -CP
C223	08S35350Y04	CAP,CER 105K-B1C -CP
C224	08S35350Y04	CAP,CER 105K-B1C -CP
C225	08S35350Y04	CAP,CER 105K-B1C -CP
C226	08S35350Y04	CAP,CER 105K-B1C -CP
C231	08T81833F11	CAP,CER 225K-B1C -CP
C232	08T81833F11	CAP,CER 225K-B1C -CP
C241	08T81833F11	CAP,CER 225K-B1C -CP
C242	08T81833F11	CAP,CER 225K-B1C -CP
C251	08T81833F11	CAP,CER 225K-B1C -CP
C252	08T81833F11	CAP,CER 225K-B1C -CP
C261	08T25628Y01	CAP,TF334M-1C-CP
C262	08T25628Y01	CAP,TF334M-1C-CP
C263	08T25628Y01	CAP,TF334M-1C-CP
C264	08T25628Y01	CAP,TF334M-1C-CP

C265	08S45676W73	CAP,CER.103K-B1H -CP
C267	08S35374W08	CAP,CER 474K-B1C -CP
C281	08S35350Y04	CAP,CER 105K-B1C -CP
C291	08S35350Y04	CAP,CER 105K-B1C -CP
C292	08S35350Y04	CAP,CER 105K-B1C -CP
C293	08S35350Y04	CAP,CER 105K-B1C -CP
C294	08S35350Y04	CAP,CER 105K-B1C -CP
C501	08S45677W10	CAP,CER 8R0D-CH1H-CP
C502	08S45677W16	CAP,CER.15RJ-CH1H-CP
C503	08S45677W12	CAP,CER.10RD-CH1H-CP
C504	08S45677W12	CAP,CER.10RD-CH1H-CP
C505	08S45676W73	CAP,CER.103K-B1H -CP
C506	08S45676W80	CAP,CER 223K-B1E -CP
C507	08S35349Y16	CAP,CER 105K-B1A -CP
C508	08S45676W73	CAP,CER.103K-B1H -CP
C509	08S45676W73	CAP,CER.103K-B1H -CP
C510	08S45676W73	CAP,CER.103K-B1H -CP
C511	08S45676W73	CAP,CER.103K-B1H -CP
C512	08S45677W46	CAP,CER 271J-CH1H-CP
C521	08S45676W80	CAP,CER 223K-B1E -CP
C522	08S45677W22	CAP,CER.27RJ-CH1H-CP
C523	08S45677W22	CAP,CER.27RJ-CH1H-CP
C524	08S45677W36	CAP,CER.101J-CH1H-CP
C530	08T81833F08	CAP,CER 475K-B1A -CP
C531	08T81833F08	CAP,CER 475K-B1A -CP
C532	08T81833F08	CAP,CER 475K-B1A -CP
C555	08T35688Y03	CAP,CER 226K-B1A -CP
C556	08T35688Y03	CAP,CER 226K-B1A -CP
C557	08T35688Y03	CAP,CER 226K-B1A -CP
C561	08S45676W73	CAP,CER.103K-B1H -CP
C581	08S45676W73	CAP,CER.103K-B1H -CP
C585	08S45677W36	CAP,CER.101J-CH1H-CP
C590	08S35349Y16	CAP,CER 105K-B1A -CP
C591	08S35349Y16	CAP,CER 105K-B1A -CP
C593	08S45676W73	CAP,CER.103K-B1H -CP
C594	08S45676W73	CAP,CER.103K-B1H -CP
C595	08S45676W73	CAP,CER.103K-B1H -CP
C596	08S45676W73	CAP,CER.103K-B1H -CP
C597	08S45676W73	CAP,CER.103K-B1H -CP
C598	08S35349Y16	CAP,CER 105K-B1A -CP
C599	08S35349Y16	CAP,CER 105K-B1A -CP
C601	08S65128F88	CAP,CER 104K-B1H -CP
C602	08S45676W63	CAP,CER 152K-B1H -CP
C603	08S45677W60	CAP,CER 102J-CH1H-CP
C612	08S65128F78	CAP,CER.223K-B1H -CP
C616	08S35350Y04	CAP,CER 105K-B1C -CP
C618	08S45676W73	CAP,CER.103K-B1H -CP
C622	08T81833F10	CAP,CER 106K-B0J -CP
C651	08S45676W85	CAP,CER 104K-B1C -CP
C652	08T81833F10	CAP,CER 106K-B0J -CP
C653	08S45677W60	CAP,CER 102J-CH1H-CP
C654	08S45676W73	CAP,CER.103K-B1H -CP
C655	08S45539Y02	CAP,CER 222KX7R2J-CP
C656	08T35688Y01	CAP,CER 106KX5R1C-CP
C657	08S45677W52	CAP,CER 471J-CH1H-CP
C658	08T81833F10	CAP,CER 106K-B0J -CP
C659	08S45677W12	CAP,CER.10RD-CH1H-CP
C661	08T81833F10	CAP,CER 106K-B0J -CP
C801	08S45539Y04	CAP,CER 103KX7R2J-CP

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C802	08S45539Y04	CAP,CER 103KX7R2J-CP
C803	08S45539Y04	CAP,CER 103KX7R2J-CP
C804	08S45539Y04	CAP,CER 103KX7R2J-CP
C805	08S45539Y04	CAP,CER 103KX7R2J-CP
C806	08S45539Y04	CAP,CER 103KX7R2J-CP
C807	08S45539Y04	CAP,CER 103KX7R2J-CP
C810	08S45676W73	CAP,CER.103K-B1H -CP
C811	08S45676W80	CAP,CER 223K-B1E -CP
C812	08S45676W80	CAP,CER 223K-B1E -CP
C813	08S45676W80	CAP,CER 223K-B1E -CP
C814	08S45676W80	CAP,CER 223K-B1E -CP
C815	08S45676W80	CAP,CER 223K-B1E -CP
C816	08S45676W80	CAP,CER 223K-B1E -CP
C817	08S45676W80	CAP,CER 223K-B1E -CP
C818	08T55401W37	CAP,TF 104J-1H-E2
C819	08S35349Y16	CAP,CER 105K-B1A -CP
C821	08S35349Y16	CAP,CER 105K-B1A -CP
C846	08S45676W80	CAP,CER 223K-B1E -CP
C852	08S45676W73	CAP,CER.103K-B1H -CP
C853	08S45676W73	CAP,CER.103K-B1H -CP
C854	08S45676W63	CAP,CER 152K-B1H -CP
C856	08S45676W73	CAP,CER.103K-B1H -CP
C861	08S45676W80	CAP,CER 223K-B1E -CP
C864	08T81833F10	CAP,CER 106K-B0J -CP
C865	08T81833F10	CAP,CER 106K-B0J -CP
C866	08S45676W73	CAP,CER.103K-B1H -CP
C867	08S45676W73	CAP,CER.103K-B1H -CP
C871	08S45676W80	CAP,CER 223K-B1E -CP
C873	08T81833F10	CAP,CER 106K-B0J -CP
C874	08S45676W85	CAP,CER 104K-B1C -CP
C875	08S45676W85	CAP,CER 104K-B1C -CP
C878	08S45676W89	CAP,CER 473K-B1E -CP
C879	08S45677W60	CAP,CER 102J-CH1H-CP
C881	08S45676W80	CAP,CER 223K-B1E -CP
C882	08S45676W73	CAP,CER.103K-B1H -CP
C891	08S45676W80	CAP,CER 223K-B1E -CP
C894	08S45676W80	CAP,CER 223K-B1E -CP
C895	08S45676W80	CAP,CER 223K-B1E -CP
C897	08S45676W80	CAP,CER 223K-B1E -CP
C898	08S35350Y04	CAP,CER 105K-B1C -CP
E001	23S65134W81	CAP,ELY 22R-1C (4)-E2
E006	23S65134W81	CAP,ELY 22R-1C (4)-E2
E007	23S65134W81	CAP,ELY 22R-1C (4)-E2
E008	23S65134W81	CAP,ELY 22R-1C (4)-E2
E011	23S65134W80	CAP,ELY 10R-1C (3)-E2
E012	23S65134W81	CAP,ELY 22R-1C (4)-E2
E014	23S65134W81	CAP,ELY 22R-1C (4)-E2
E015	23S65134W81	CAP,ELY 22R-1C (4)-E2
E061	23S65134W81	CAP,ELY 22R-1C (4)-E2
E072	23S65134W80	CAP,ELY 10R-1C (3)-E2
E081	23S65134W80	CAP,ELY 10R-1C (3)-E2
E091	23S65134W51	CAP,ELY 2R2-1V (3)-E2
E262	23T35735Y02	CAP,MVY 101-1C-E6
E263	23T75346W02	CAP,X-PRO 472-1C+
E264	23T95564W08	CAP,FC10R-1C-B -E2
E501	23T35735Y02	CAP,MVY 101-1C-E6
E621	23S65134W61	CAP,ELY 0R1-1H (3)-E2
E651	23S65134W81	CAP,ELY 22R-1C (4)-E2
E811	23T35735Y02	CAP,MVY 101-1C-E6
E812	23T35735Y02	CAP,MVY 101-1C-E6
E813	23T35735Y02	CAP,MVY 101-1C-E6
E814	23T35735Y02	CAP,MVY 101-1C-E6
E815	23T35735Y02	CAP,MVY 101-1C-E6
E816	23T35735Y02	CAP,MVY 101-1C-E6
E817	23T35735Y02	CAP,MVY 101-1C-E6
E823	23S75372W04	CAP,ELY 10R-1C-R2
E852	23T35735Y08	CAP,MVY 331-1E-H10EA
E853	23T45213Y05	CAP,UD471-1C-EA
E854	23T35735Y08	CAP,MVY 331-1E-H10EA
E861	23T35735Y02	CAP,MVY 101-1C-E6
E865	23T35735Y02	CAP,MVY 101-1C-E6
E866	23T35735Y02	CAP,MVY 101-1C-E6
E867	23T35735Y02	CAP,MVY 101-1C-E6
E868	23T35735Y02	CAP,MVY 101-1C-E6
E871	23T35735Y02	CAP,MVY 101-1C-E6
E872	23T35735Y02	CAP,MVY 101-1C-E6
E873	23T35735Y02	CAP,MVY 101-1C-E6
E881	23T45213Y05	CAP,UD471-1C-EA
E882	23T35735Y02	CAP,MVY 101-1C-E6
E897	23T35735Y02	CAP,MVY 101-1C-E6

=======Resistors		
R001	06S45674W69	RES,RK 332J 1/10 -CP
R002	06S45674W61	RES,RK 152J 1/10 -CP
R004	06S45674W17	RES,RK 22RJ 1/10 -CP
R005	06S45674W17	RES,RK 22RJ 1/10 -CP
R006	06S70072F05	RES,CP .10R-J-1/4-CP
R007	06S45674W65	RES,RK 222J 1/10 -CP
R008	06S45674W57	RES,RK 102J 1/10 -CP
R009	06S45674W65	RES,RK 222J 1/10 -CP
R010	06S45675W30	RES,RK 105J 1/10 -CP
R011	06S45674W73	RES,RK 472J 1/10 -CP
R012	06S45674W09	RES,RK 10RJ 1/10 -CP
R013	06S45674W99	RES,RK 563J 1/10 -CP
R015	06S45674W89	RES,RK 223J 1/10 -CP
R016	06S45674W81	RES,RK 103J 1/10 -CP
R017	06S45674W33	RES,RK 101J 1/10 -CP
R018	06S45674W99	RES,RK 563J 1/10 -CP
R019	06S45674W69	RES,RK 332J 1/10 -CP
R020	06S45674W99	RES,RK 563J 1/10 -CP
R021	06S45674W09	RES,RK 10RJ 1/10 -CP
R022	06S45674W09	RES,RK 10RJ 1/10 -CP
R023	06S45674W75	RES,RK 562J 1/10 -CP
R024	06S45674W53	RES,RK 681J 1/10 -CP
R025	06S45674W57	RES,RK 102J 1/10 -CP
R026	06S45674W57	RES,RK 102J 1/10 -CP
R028	06S45675W06	RES,RK 104J 1/10 -CP
R029	06S45674W99	RES,RK 563J 1/10 -CP
R030	06S45674W75	RES,RK 562J 1/10 -CP
R031	06S45675W43	RES,RK JUMPER1/10-CP
R032	06S70072F37	RES,CP .221-J-1/4-CP
R035	06S45674W49	RES,RK 471J 1/10 -CP
R036	06S45674W49	RES,RK 471J 1/10 -CP
R037	06S45674W99	RES,RK 563J 1/10 -CP
R043	06S45674W05	RES,RK 4R7J 1/10 -CP
R044	06S45674W05	RES,RK 4R7J 1/10 -CP
R045	06S45674W09	RES,RK 10RJ 1/10 -CP
R050	06S45674W83	RES,RK 123J 1/10 -CP

R061	06S45674W49	RES,RK 471J 1/10 -CP
R062	06S45674W49	RES,RK 471J 1/10 -CP
R065	06S45675W43	RES,RK JUMPER1/10-CP
R066	06S45674W73	RES,RK 472J 1/10 -CP
R067	06S45675W43	RES,RK JUMPER1/10-CP
R068	06S45675W14	RES,RK 224J 1/10 -CP
R069	06S45675W43	RES,RK JUMPER1/10-CP
R072	06S45674W57	RES,RK 102J 1/10 -CP
R073	06S45674W57	RES,RK 102J 1/10 -CP
R074	06S45675W06	RES,RK 104J 1/10 -CP
R075	06S45674W65	RES,RK 222J 1/10 -CP
R082	06S45674W89	RES,RK 223J 1/10 -CP
R086	06S45674W81	RES,RK 103J 1/10 -CP
R087	06S45674W81	RES,RK 103J 1/10 -CP
R091	06S45675W22	RES,RK 474J 1/10 -CP
R092	06S45674W75	RES,RK 562J 1/10 -CP
R095	06S45674W57	RES,RK 102J 1/10 -CP
R098	06S45674W81	RES,RK 103J 1/10 -CP
R099	06S45674W81	RES,RK 103J 1/10 -CP
R221	06S45674W41	RES,RK 221J 1/10 -CP
R222	06S45674W41	RES,RK 221J 1/10 -CP
R223	06S45674W89	RES,RK 223J 1/10 -CP
R224	06S45674W89	RES,RK 223J 1/10 -CP
R225	06S45674W33	RES,RK 101J 1/10 -CP
R226	06S45674W33	RES,RK 101J 1/10 -CP
R231	06S45674W41	RES,RK 221J 1/10 -CP
R232	06S45674W41	RES,RK 221J 1/10 -CP
R233	06S45674W89	RES,RK 223J 1/10 -CP
R234	06S45674W89	RES,RK 223J 1/10 -CP
R235	06S45674W33	RES,RK 101J 1/10 -CP
R236	06S45674W33	RES,RK 101J 1/10 -CP
R241	06S45674W41	RES,RK 221J 1/10 -CP
R242	06S45674W41	RES,RK 221J 1/10 -CP
R243	06S45674W89	RES,RK 223J 1/10 -CP
R244	06S45674W89	RES,RK 223J 1/10 -CP
R245	06S45674W33	RES,RK 101J 1/10 -CP
R246	06S45674W33	RES,RK 101J 1/10 -CP
R251	06S45674W41	RES,RK 221J 1/10 -CP
R252	06S45674W41	RES,RK 221J 1/10 -CP
R253	06S45674W89	RES,RK 223J 1/10 -CP
R254	06S45674W89	RES,RK 223J 1/10 -CP
R255	06S45674W33	RES,RK 101J 1/10 -CP
R256	06S45674W33	RES,RK 101J 1/10 -CP
R261	06S45674W35	RES,RK 121J 1/10 -CP
R262	06S45674W35	RES,RK 121J 1/10 -CP
R263	06S45674W35	RES,RK 121J 1/10 -CP
R264	06S45674W35	RES,RK 121J 1/10 -CP
R265	06S45674W81	RES,RK 103J 1/10 -CP
R266	06S45675W28	RES,RK 824J 1/10 -CP
R281	06S45674W58	RES,RK 112J 1/10 -CP
R282	06S45674W58	RES,RK 112J 1/10 -CP
R283	06S45674W58	RES,RK 112J 1/10 -CP
R284	06S45674W58	RES,RK 112J 1/10 -CP
R291	06S45675W43	RES,RK JUMPER1/10-CP
R292	06S45675W43	RES,RK JUMPER1/10-CP
R293	06S45675W43	RES,RK JUMPER1/10-CP
R294	06S45675W43	RES,RK JUMPER1/10-CP
R295	06S45675W43	RES,RK JUMPER1/10-CP
R296	06S45675W43	RES,RK JUMPER1/10-CP

R297	06S45675W43	RES,RK JUMPER1/10-CP
R298	06S45675W43	RES,RK JUMPER1/10-CP
R501	06S45674W57	RES,RK 102J 1/10 -CP
R502	06S45674W97	RES,RK 473J 1/10 -CP
R503	06S45675W22	RES,RK 474J 1/10 -CP
R504	06S45674W97	RES,RK 473J 1/10 -CP
R505	06S45674W97	RES,RK 473J 1/10 -CP
R506	06S45674W97	RES,RK 473J 1/10 -CP
R507	06S45674W97	RES,RK 473J 1/10 -CP
R508	06S45674W97	RES,RK 473J 1/10 -CP
R509	06S45675W43	RES,RK JUMPER1/10-CP
R510	06S15593Y49	RES,RK 102F 1/10 -CP
R511	06S45675W43	RES,RK JUMPER1/10-CP
R513	06S45675W43	RES,RK JUMPER1/10-CP
R515	06S45674W57	RES,RK 102J 1/10 -CP
R516	06S45674W97	RES,RK 473J 1/10 -CP
R517	06S45674W49	RES,RK 471J 1/10 -CP
R518	06S45674W49	RES,RK 471J 1/10 -CP
R519	06S45674W97	RES,RK 473J 1/10 -CP
R520	06S45674W89	RES,RK 223J 1/10 -CP
R521	06S45674W73	RES,RK 472J 1/10 -CP
R522	06S45674W73	RES,RK 472J 1/10 -CP
R523	06S70072F05	RES,CP .10R-J-1/4-CP
R524	06S70072F34	RES,CP .161-J-1/4-CP
R525	06S70072F34	RES,CP .161-J-1/4-CP
R526	06S70072F34	RES,CP .161-J-1/4-CP
R527	06S70072F34	RES,CP .161-J-1/4-CP
R528	06S45674W65	RES,RK 222J 1/10 -CP
R529	06S45674W61	RES,RK 152J 1/10 -CP
R530	06S45674W61	RES,RK 152J 1/10 -CP
R531	06S45674W65	RES,RK 222J 1/10 -CP
R532	06S45674W57	RES,RK 102J 1/10 -CP
R534	06S70072F45	RES,CP .471-J-1/4-CP
R535	06S45674W89	RES,RK 223J 1/10 -CP
R536	06S45674W57	RES,RK 102J 1/10 -CP
R537	06S45674W57	RES,RK 102J 1/10 -CP
R538	06S45674W33	RES,RK 101J 1/10 -CP
R539	06S45674W89	RES,RK 223J 1/10 -CP
R540	06S45674W81	RES,RK 103J 1/10 -CP
R541	06S45674W97	RES,RK 473J 1/10 -CP
R542	06S45674W57	RES,RK 102J 1/10 -CP
R543	06S45674W97	RES,RK 473J 1/10 -CP
R544	06S45674W81	RES,RK 103J 1/10 -CP
R547	06S45674W81	RES,RK 103J 1/10 -CP
R548	06S45674W97	RES,RK 473J 1/10 -CP
R549	06S45674W97	RES,RK 473J 1/10 -CP
R550	06S45674W69	RES,RK 332J 1/10 -CP
R551	06S45674W97	RES,RK 473J 1/10 -CP
R552	06S45674W57	RES,RK 102J 1/10 -CP
R553	06S45674W33	RES,RK 101J 1/10 -CP
R554	06S45674W33	RES,RK 101J 1/10 -CP
R556	06S45675W43	RES,RK JUMPER1/10-CP
R557	06S45675W43	RES,RK JUMPER1/10-CP
R559	06S45674W57	RES,RK 102J 1/10 -CP
R560	06S45674W57	RES,RK 102J 1/10 -CP
R561	06S45674W61	RES,RK 152J 1/10 -CP
R562	06S45674W89	RES,RK 223J 1/10 -CP
R563	06S45675W43	RES,RK JUMPER1/10-CP
R571	06S64995F77	RES,RK 103J 1/8-CP

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R572	06S35095Y08	RES,RK JUMPER 1/4-CP
R573	06S45674W89	RES,RK 223J 1/10 -CP
R574	06S64995F53	RES,RK 102J 1/8-CP
R575	06S64995F53	RES,RK 102J 1/8-CP
R576	06S64995F53	RES,RK 102J 1/8-CP
R577	06S64995F53	RES,RK 102J 1/8-CP
R578	06S64995F53	RES,RK 102J 1/8-CP
R579	06S64995F53	RES,RK 102J 1/8-CP
R580	06S45675W06	RES,RK 104J 1/10 -CP
R581	06S70072F29	RES,CP .101-J-1/4-CP
R582	06S70072F77	RES,CP .103-J-1/4-CP
R583	06S70072F61	RES,CP .222-J-1/4-CP
R584	06S45675W06	RES,RK 104J 1/10 -CP
R587	06S64995F53	RES,RK 102J 1/8-CP
R588	06S64995F53	RES,RK 102J 1/8-CP
R589	06S64995F53	RES,RK 102J 1/8-CP
R590	06S45674W33	RES,RK 101J 1/10 -CP
R593	06S45675W06	RES,RK 104J 1/10 -CP
R595	06S45674W33	RES,RK 101J 1/10 -CP
R596	06S45674W33	RES,RK 101J 1/10 -CP
R601	06S70072F29	RES,CP .101-J-1/4-CP
R602	06S45674W69	RES,RK 332J 1/10 -CP
R603	06S45674W65	RES,RK 222J 1/10 -CP
R605	06S45674W89	RES,RK 223J 1/10 -CP
R606	06S45674W89	RES,RK 223J 1/10 -CP
R607	06S45674W57	RES,RK 102J 1/10 -CP
R611	06S45674W97	RES,RK 473J 1/10 -CP
R612	06S70072F77	RES,CP .103-J-1/4-CP
R615	06S45674W97	RES,RK 473J 1/10 -CP
R616	06S70072F77	RES,CP .103-J-1/4-CP
R617	06S45674W89	RES,RK 223J 1/10 -CP
R618	06S70072F53	RES,CP .102-J-1/4-CP
R619	06S45675W14	RES,RK 224J 1/10 -CP
R621	06S70072F69	RES,CP .472-J-1/4-CP
R622	06S70072F69	RES,CP .472-J-1/4-CP
R623	06S45674W97	RES,RK 473J 1/10 -CP
R624	06S45674W97	RES,RK 473J 1/10 -CP
R625	06S45674W81	RES,RK 103J 1/10 -CP
R631	06S45674W97	RES,RK 473J 1/10 -CP
R632	06S45674W97	RES,RK 473J 1/10 -CP
R633	06S70072F37	RES,CP .221-J-1/4-CP
R634	06S70072F37	RES,CP .221-J-1/4-CP
R641	06S15593Y71	RES,RK 822F 1/10 -CP
R651	06S15593Y73	RES,RK 103F 1/10 -CP
R652	06S15593Y73	RES,RK 103F 1/10 -CP
R653	06S45674W81	RES,RK 103J 1/10 -CP
R654	06S45674W81	RES,RK 103J 1/10 -CP
R655	06S45674W81	RES,RK 103J 1/10 -CP
R656	06S45675W08	RES,RK 124J 1/10 -CP
R657	06S55362Y06	RES,RK 473J 1/4-CP
R658	06S70072F77	RES,CP .103-J-1/4-CP
R659	06S45675W14	RES,RK 224J 1/10 -CP
R661	06S15593Y89	RES,RK 473F 1/10 -CP
R662	06S15593Y97	RES,RK 104F 1/10 -CP
R663	06S45674W81	RES,RK 103J 1/10 -CP
R801	06S70072F39	RES,CP .271-J-1/4-CP
R802	06S70072F39	RES,CP .271-J-1/4-CP
R805	06S70072F04	RES,CP .8R2-J-1/4-CP
R806	06S70072F04	RES,CP .8R2-J-1/4-CP
R807	06S70072F04	RES,CP .8R2-J-1/4-CP
R808	06S70072F04	RES,CP .8R2-J-1/4-CP
R811	06S15594Y06	RES,RK 224F 1/10 -CP
R812	06S15594Y04	RES,RK 184F 1/10 -CP
R815	06S45348Y31	RES,RK 224F 1/4-CP
R816	06S45674W89	RES,RK 223J 1/10 -CP
R817	06S45674W49	RES,RK 471J 1/10 -CP
R818	06S15594Y06	RES,RK 224F 1/10 -CP
R819	06S15593Y93	RES,RK 683F 1/10 -CP
R820	06S45674W81	RES,RK 103J 1/10 -CP
R821	06S70072F77	RES,CP .103-J-1/4-CP
R822	06S70072F61	RES,CP .222-J-1/4-CP
R823	06S45674W81	RES,RK 103J 1/10 -CP
R824	06S45674W81	RES,RK 103J 1/10 -CP
R825	06S70072F59	RES,CP .182-J-1/4-CP
R826	06S70072F59	RES,CP .182-J-1/4-CP
R827	06S70072F77	RES,CP .103-J-1/4-CP
R828	06S45674W89	RES,RK 223J 1/10 -CP
R829	06S45674W49	RES,RK 471J 1/10 -CP
R830	06S45674W97	RES,RK 473J 1/10 -CP
R831	06S70072F94	RES,RK 1R8J 1/4-CP
R832	06S70072F94	RES,RK 1R8J 1/4-CP
R833	06S70072F94	RES,RK 1R8J 1/4-CP
R834	06S70072F94	RES,RK 1R8J 1/4-CP
R835	06S70072F94	RES,RK 1R8J 1/4-CP
R836	06S70072F94	RES,RK 1R8J 1/4-CP
R837	06S70072F51	RES,CP .821-J-1/4-CP
R838	06S70072F51	RES,CP .821-J-1/4-CP
R839	06S70072F51	RES,CP .821-J-1/4-CP
R841	06S45674W89	RES,RK 223J 1/10 -CP
R842	06S45674W61	RES,RK 152J 1/10 -CP
R843	06S35095Y15	RES,RK 243J 1/4-CP
R844	06S70072F57	RES,CP .152-J-1/4-CP
R845	06S70072F57	RES,CP .152-J-1/4-CP
R846	06S35095Y15	RES,RK 243J 1/4-CP
R847	06S70072F57	RES,CP .152-J-1/4-CP
R851	06S70072F94	RES,RK 1R8J 1/4-CP
R852	06S70072F94	RES,RK 1R8J 1/4-CP
R853	06S70072F94	RES,RK 1R8J 1/4-CP
R855	06S70072F59	RES,CP .182-J-1/4-CP
R856	06S70072F59	RES,CP .182-J-1/4-CP
R857	06S70072F59	RES,CP .182-J-1/4-CP
R858	06S15593Y85	RES,RK 333F 1/10 -CP
R859	06S15593Y57	RES,RK 222F 1/10 -CP
R860	06S70072F45	RES,CP .471-J-1/4-CP
R862	06S70072F41	RES,CP .331-J-1/4-CP
R863	06S45674W89	RES,RK 223J 1/10 -CP
R865	06S35095Y15	RES,RK 243J 1/4-CP
R866	06S70072F51	RES,CP .821-J-1/4-CP
R867	06S70072F51	RES,CP .821-J-1/4-CP
R868	06S70072F51	RES,CP .821-J-1/4-CP
R870	06S15593Y81	RES,RK 223F 1/10 -CP
R871	06S15593Y97	RES,RK 104F 1/10 -CP
R872	06S70072F45	RES,CP .471-J-1/4-CP
R873	06S70072F45	RES,CP .471-J-1/4-CP
R874	06S15593Y81	RES,RK 223F 1/10 -CP
R875	06S15594Y06	RES,RK 224F 1/10 -CP
R876	06S15593Y33	RES,RK 221F 1/10 -CP
R877	06S15593Y35	RES,RK 271F 1/10 -CP

R878	06S15593Y51	RES,RK 122F 1/10 -CP
R879	06S70072F05	RES,CP .10R-J-1/4-CP
R880	06S70072F29	RES,CP .101-J-1/4-CP
R881	06S45674W97	RES,RK 473J 1/10 -CP
R882	06S15593Y51	RES,RK 122F 1/10 -CP
R883	06S15593Y63	RES,RK 392F 1/10 -CP
R885	06S15593Y39	RES,RK 391F 1/10 -CP
R886	06S15593Y49	RES,RK 102F 1/10 -CP
R887	06S15593Y25	RES,RK 101F 1/10 -CP
R891	06S70072F17	RES,CP .33R-J-1/4-CP
R892	06S70072F17	RES,CP .33R-J-1/4-CP
R893	06S70072F17	RES,CP .33R-J-1/4-CP
R894	06S70072F17	RES,CP .33R-J-1/4-CP
R895	06S70072F17	RES,CP .33R-J-1/4-CP
R896	06S70072F17	RES,CP .33R-J-1/4-CP
R897	06S70072F78	RES,CP .2R2-J-1/4-CP
R898	06S70072F78	RES,CP .2R2-J-1/4-CP
R899	06S70072F43	RES,CP .391-J-1/4-CP
R1851	06S70072F35	RES,CP .181-J-1/4-CP
R1852	06S70072F35	RES,CP .181-J-1/4-CP
R1853	06S45674W57	RES,RK 102J 1/10 -CP
R1854	06S70072F57	RES,CP .152-J-1/4-CP
RA091	06S45591W06	RES,ARY MNR102J 4-CP
RA501	06S45591W06	RES,ARY MNR102J 4-CP
RA502	06S45591W06	RES,ARY MNR102J 4-CP
RA503	06S45591W06	RES,ARY MNR102J 4-CP
RA504	06S45591W06	RES,ARY MNR102J 4-CP
RA505	06S45591W06	RES,ARY MNR102J 4-CP
RA506	06S45591W06	RES,ARY MNR102J 4-CP
RA507	06S45591W06	RES,ARY MNR102J 4-CP
RA508	06S45591W06	RES,ARY MNR102J 4-CP
RA509	06S45591W06	RES,ARY MNR102J 4-CP
RA510	06S45591W06	RES,ARY MNR102J 4-CP
RA511	06S45591W06	RES,ARY MNR102J 4-CP
RA512	06S45591W06	RES,ARY MNR102J 4-CP
RA513	06S45591W06	RES,ARY MNR102J 4-CP
RA514	06S45591W06	RES,ARY MNR102J 4-CP
RA515	06S45591W06	RES,ARY MNR102J 4-CP
RA521	06S45591W15	RES,ARY MNR472J 4-CP

=======Connectors		
CB221	09T25436Y09	WTB,53253-0910-DB
CB271	09T45664Y13	PIN,IMSA9210B-10Z-DB
CB501	09T25286Y10	WTB,BM (10)B-SRSS -E9
CB571	09T45434W15	FFC,52271-1590-ED
CB581	09T45517Y80	BTB,TWK-E80P-E1-EZ
CB583	09T25436Y03	WTB,53253-0310-DB
CB591	09T15153Y20	FFC,FH12-20S-E7
CB601	09T25436Y03	WTB,53253-0310-DB
CB611	09T55228W02	WTB,SC25-02WS-DB
CB841	09T25436Y02	WTB,53253-0210-DB
CB891	09T25436Y02	WTB,53253-0210-DB

*********FRONT P.W.Board**

=======IC's		
IC901	51T45460Y43	MTP,M30803FGGP
IC902	51T15427Y12	MBM29F800TA90-A12-ST
IC909	51T25532Y01	TC74VHC00FT-SE5
IC910	51T25532Y01	TC74VHC00FT-SE5
IC911	51T65494Y01	M66710FP-QT
IC912	51T25189Y01	S-81233SGUP-T1-NE2
IC991	51T65074Y21	S-80935CLMC-T2-CP

=======Transistors		
Q901	48T63788F04	TR ,CP.2SD1328-T -TX
Q902	48T63788F04	TR ,CP.2SD1328-T -TX
Q903	48T25736Y02	TR,UMC3N-TR-CP
Q904	48T25736Y02	TR,UMC3N-TR-CP
Q905	48T25137Y13	TR,UN921FJ-TX-CP
Q906	48T25137Y13	TR,UN921FJ-TX-CP
Q907	48T25720W01	TR,2SB1198K-QR-46-CP
Q908	48T25137Y02	TR,UN9212J-TX-CP
Q909	48T25137Y02	TR,UN9212J-TX-CP
Q991	48T25137Y02	TR,UN9212J-TX-CP

=======Diodes		
D904	48T94471F04	DIO,IMN10-T108-CP
D905	48T94471F04	DIO,IMN10-T108-CP
D906	48T25564Y01	DIO,MA113-TX-CP
ZD902	48T15541Y50	DIO,ZEN MAZS0510H-CP
ZD903	48T15541Y50	DIO,ZEN MAZS0510H-CP

=======LED's		
LD901	48T15110Y15	LED,A/G 1211C-27 -CP
LD902	48T15110Y15	LED,A/G 1211C-27 -CP
LD903	48T15110Y15	LED,A/G 1211C-27 -CP
LD904	48T15110Y15	LED,A/G 1211C-27 -CP
LD905	48T15110Y15	LED,A/G 1211C-27 -CP
LD906	48T15110Y15	LED,A/G 1211C-27 -CP
LD907	48T15110Y15	LED,A/G 1211C-27 -CP
LD908	48T15110Y15	LED,A/G 1211C-27 -CP
LD909	48T15110Y15	LED,A/G 1211C-27 -CP
LD910	48T15110Y15	LED,A/G 1211C-27 -CP
LD911	48T15110Y15	LED,A/G 1211C-27 -CP
LD912	48T15110Y15	LED,A/G 1211C-27 -CP
LD913	48T15110Y15	LED,A/G 1211C-27 -CP
LD914	48T15110Y15	LED,A/G 1211C-27 -CP
LD921	48T25534Y03	LED,AMB AA1111C-CP
LD922	48T25534Y03	LED,AMB AA1111C-CP
LD923	48T25534Y03	LED,AMB AA1111C-CP
LD924	48T25534Y03	LED,AMB AA1111C-CP
LD925	48T25534Y03	LED,AMB AA1111C-CP
LD926	48T25534Y03	LED,AMB AA1111C-CP
LD927	48T65688Y01	LED,AMB SML-511DW-CP

=======Switches		
SW901	40T55656W06	SW,TACT SKQMAJ001-E2 (T.INFO/ANNC.)
SW903	40T55656W06	SW,TACT SKQMAJ001-E2 (PLAY/PAUSE/TUNE/A.ME)
SW904	40T55656W06	SW,TACT SKQMAJ001-E2 (NAV.)
SW905	40T55656W06	SW,TACT SKQMAJ001-E2 (VOICE)
SW906	40T55656W06	SW,TACT SKQMAJ001-E2 (OK/TMC)
SW907	40T55656W06	SW,TACT SKQMAJ001-E2 (SOURCE/POWER)

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	SW908	40T55656W06	SW,TACT SKQMAJ001-E2 (BAND/TEL.)
	SW909	40T55656W06	SW,TACT SKQMAJ001-E2 (BWD/TUNE DOWN)
	SW910	40T55656W06	SW,TACT SKQMAJ001-E2 (FWD/TUNE UP)
	SW911	40T55656W06	SW,TACT SKQMAJ001-E2 (MENU)
	SW912	40T55656W06	SW,TACT SKQMAJ001-E2 (RTN)
	SW913	40T55656W06	SW,TACT SKQMAJ001-E2 (DEFEAT)
	SW914	40T55656W06	SW,TACT SKQMAJ001-E2 (TITLE)

=======Filters			
	Z901	91T15058Y07	EMI,NFE31PT222Z1E-CP
	Z902	91T15058Y07	EMI,NFE31PT222Z1E-CP
	Z903	91T15058Y07	EMI,NFE31PT222Z1E-CP

=======Coils			
	L901	24T95457W18	FBI,BLM21PG221SH1-CP
	L902	24T45464Y03	FBI,BLM18HD601SH1-CP

=======Crystal			
	XL901	91T95084W04	XTL,CS20 20.000M -E9

=======Lamp			
	PL901	65T55351Y01	LAMP,GRN 6-80-E5

=======Thermistor			
	TH901	48T25250Y06	TMT,ERTJ1VR223G-CP

=======Capacitors			
	C901	08S45677W12	CAP,CER.10RD-CH1H-CP
	C902	08S45677W10	CAP,CER 8R0D-CH1H-CP
	C904	08S45676W80	CAP,CER 223K-B1E -CP
	C905	08S45676W80	CAP,CER 223K-B1E -CP
	C907	08S45676W80	CAP,CER 223K-B1E -CP
	C909	08S45676W85	CAP,CER 104K-B1C -CP
	C910	08S45676W80	CAP,CER 223K-B1E -CP
	C911	08S45677W60	CAP,CER 102J-CH1H-CP
	C915	08S45676W85	CAP,CER 104K-B1C -CP
	C916	08S45676W85	CAP,CER 104K-B1C -CP
	C917	08S45677W12	CAP,CER.10RD-CH1H-CP
	C918	08S45677W12	CAP,CER.10RD-CH1H-CP
	C919	08S45677W12	CAP,CER.10RD-CH1H-CP
	C921	08S45677W36	CAP,CER.101J-CH1H-CP
	C922	08S45677W36	CAP,CER.101J-CH1H-CP
	C923	08S35374W07	CAP,CER 334K-B1C -CP
	C924	08S45676W80	CAP,CER 223K-B1E -CP
	C925	08S35374W12	CAP,CER 106K-B0J -CP
	C926	08S35374W12	CAP,CER 106K-B0J -CP
	C927	08S35374W12	CAP,CER 106K-B0J -CP
	C950	08S35374W12	CAP,CER 106K-B0J -CP
	C951	08S45676W80	CAP,CER 223K-B1E -CP
	C952	08S35374W12	CAP,CER 106K-B0J -CP
	C953	08S35374W12	CAP,CER 106K-B0J -CP
	C954	08S35374W12	CAP,CER 106K-B0J -CP
	C955	08S45676W85	CAP,CER 104K-B1C -CP
	C956	08S35374W12	CAP,CER 106K-B0J -CP
	C957	08S35374W12	CAP,CER 106K-B0J -CP
	C958	08S35374W12	CAP,CER 106K-B0J -CP
	C991	08S45676W80	CAP,CER 223K-B1E -CP

=======Resistors			
	R901	06S45674W29	RES,RK 68RJ 1/10 -CP
	R902	06S45674W81	RES,RK 103J 1/10 -CP
	R903	06S64995F53	RES,RK 102J 1/8-CP
	R905	06S45674W57	RES,RK 102J 1/10 -CP
	R906	06S45674W57	RES,RK 102J 1/10 -CP
	R907	06S45674W57	RES,RK 102J 1/10 -CP
	R908	06S45674W57	RES,RK 102J 1/10 -CP
	R909	06S45674W57	RES,RK 102J 1/10 -CP
	R910	06S45674W57	RES,RK 102J 1/10 -CP
	R911	06S15593Y71	RES,RK 822F 1/10 -CP
	R913	06S45674W81	RES,RK 103J 1/10 -CP
	R914	06S64995F53	RES,RK 102J 1/8-CP
	R915	06S64995F53	RES,RK 102J 1/8-CP
	R916	06S45674W33	RES,RK 101J 1/10 -CP
	R917	06S45674W33	RES,RK 101J 1/10 -CP
	R918	06S45674W81	RES,RK 103J 1/10 -CP
	R919	06S45674W29	RES,RK 68RJ 1/10 -CP
	R925	06S45675W06	RES,RK 104J 1/10 -CP
	R927	06S45674W29	RES,RK 68RJ 1/10 -CP
	R929	06S45675W43	RES,RK JUMPER1/10-CP
	R930	06S45675W43	RES,RK JUMPER1/10-CP
	R931	06S45674W89	RES,RK 223J 1/10 -CP
	R932	06S70072F67	RES,CP .392-J-1/4-CP
	R966	06S45674W57	RES,RK 102J 1/10 -CP
	R967	06S45674W57	RES,RK 102J 1/10 -CP
	R968	06S45674W57	RES,RK 102J 1/10 -CP
	R969	06S45674W57	RES,RK 102J 1/10 -CP
	R970	06S45674W57	RES,RK 102J 1/10 -CP
	R971	06S45674W57	RES,RK 102J 1/10 -CP
	R972	06S45674W57	RES,RK 102J 1/10 -CP
	R973	06S64995F91	RES,RK 393J 1/8-CP
	R974	06S64995F53	RES,RK 102J 1/8-CP
	R977	06S45674W33	RES,RK 101J 1/10 -CP
	R980	06S45674W55	RES,RK 821J 1/10 -CP
	R981	06S70072F43	RES,CP .391-J-1/4-CP
	R982	06S70072F39	RES,CP .271-J-1/4-CP
	R983	06S70072F41	RES,CP .331-J-1/4-CP
	R984	06S70072F39	RES,CP .271-J-1/4-CP
	R986	06S70072F55	RES,CP .122-J-1/4-CP
	R988	06S70072F55	RES,CP .122-J-1/4-CP
	R990	06S70072F55	RES,CP .122-J-1/4-CP
	R991	06S45674W89	RES,RK 223J 1/10 -CP
	R992	06S70072F55	RES,CP .122-J-1/4-CP
	R993	06S70072F43	RES,CP .391-J-1/4-CP
	R994	06S70072F39	RES,CP .271-J-1/4-CP
	R996	06S70072F39	RES,CP .271-J-1/4-CP
	R997	06S70072F47	RES,CP .561-J-1/4-CP
	R998	06S70072F47	RES,CP .561-J-1/4-CP
	R999	06S55361Y57	RES,RK 471J 1/4-CP
	R1000	06S55361Y57	RES,RK 471J 1/4-CP
	R1001	06S45674W33	RES,RK 101J 1/10 -CP
	R1002	06S55361Y57	RES,RK 471J 1/4-CP

R1003	06S45674W33	RES,RK 101J 1/10 -CP
R1004	06S55361Y57	RES,RK 471J 1/4-CP
R1006	06S70072F51	RES,CP .821-J-1/4-CP
R1007	06S45674W57	RES,RK 102J 1/10 -CP
R1008	06S45674W57	RES,RK 102J 1/10 -CP
R1010	06S55361Y57	RES,RK 471J 1/4-CP
R1012	06S55361Y57	RES,RK 471J 1/4-CP
R1014	06S70072F47	RES,CP .561-J-1/4-CP
R1022	06S70072F51	RES,CP .821-J-1/4-CP
R1024	06S70072F51	RES,CP .821-J-1/4-CP
R1025	06S70072F43	RES,CP .391-J-1/4-CP
R1026	06S70072F51	RES,CP .821-J-1/4-CP
R1027	06S70072F43	RES,CP .391-J-1/4-CP
R1028	06S70072F39	RES,CP .271-J-1/4-CP
R1029	06S70072F41	RES,CP .331-J-1/4-CP
R1030	06S70072F39	RES,CP .271-J-1/4-CP
R1031	06S70072F33	RES,CP .151-J-1/4-CP
R1032	06S70072F33	RES,CP .151-J-1/4-CP
R1033	06S70072F33	RES,CP .151-J-1/4-CP
R1034	06S70072F33	RES,CP .151-J-1/4-CP
R1035	06S70072F33	RES,CP .151-J-1/4-CP
R1036	06S70072F33	RES,CP .151-J-1/4-CP
R1041	06S70072F41	RES,CP .331-J-1/4-CP
R1042	06S70072F41	RES,CP .331-J-1/4-CP
R1043	06S70072F41	RES,CP .331-J-1/4-CP
R1044	06S70072F41	RES,CP .331-J-1/4-CP
R1045	06S45674W81	RES,RK 103J 1/10 -CP
R1046	06S45674W81	RES,RK 103J 1/10 -CP
R1047	06S45674W81	RES,RK 103J 1/10 -CP
R1048	06S45674W81	RES,RK 103J 1/10 -CP
R1049	06S45674W81	RES,RK 103J 1/10 -CP
R1055	06S45674W33	RES,RK 101J 1/10 -CP
R1065	06S45674W81	RES,RK 103J 1/10 -CP
R1066	06S64995F53	RES,RK 102J 1/8-CP
R1068	06S45674W57	RES,RK 102J 1/10 -CP
R1069	06S45674W57	RES,RK 102J 1/10 -CP
R1070	06S45674W57	RES,RK 102J 1/10 -CP
R1071	06S45674W57	RES,RK 102J 1/10 -CP
R1072	06S45674W57	RES,RK 102J 1/10 -CP
R1074	06S64995F53	RES,RK 102J 1/8-CP
R1075	06S64995F53	RES,RK 102J 1/8-CP
R1076	06S64995F53	RES,RK 102J 1/8-CP
R1077	06S64995F53	RES,RK 102J 1/8-CP
R1078	06S64995F53	RES,RK 102J 1/8-CP
R1080	06S45674W29	RES,RK 68RJ 1/10 -CP
R1081	06S45674W33	RES,RK 101J 1/10 -CP
R1082	06S45674W33	RES,RK 101J 1/10 -CP
R1083	06S45674W57	RES,RK 102J 1/10 -CP
R1084	06S45674W57	RES,RK 102J 1/10 -CP
R1085	06S45674W57	RES,RK 102J 1/10 -CP
R1086	06S45674W57	RES,RK 102J 1/10 -CP
R1087	06S45674W57	RES,RK 102J 1/10 -CP
R1088	06S45675W06	RES,RK 104J 1/10 -CP
R1089	06S45675W06	RES,RK 104J 1/10 -CP
R1090	06S45675W06	RES,RK 104J 1/10 -CP
R1093	06S45674W81	RES,RK 103J 1/10 -CP
R1094	06S45675W06	RES,RK 104J 1/10 -CP
R1095	06S45675W06	RES,RK 104J 1/10 -CP
R1096	06S45675W06	RES,RK 104J 1/10 -CP
R1097	06S45675W06	RES,RK 104J 1/10 -CP
R1098	06S45675W06	RES,RK 104J 1/10 -CP
R1099	06S45675W06	RES,RK 104J 1/10 -CP
R1100	06S45675W06	RES,RK 104J 1/10 -CP
R1101	06S45675W06	RES,RK 104J 1/10 -CP
R1104	06S45674W53	RES,RK 681J 1/10 -CP
R1106	06S45674W81	RES,RK 103J 1/10 -CP
R1110	06S45674W29	RES,RK 68RJ 1/10 -CP
R1111	06S45674W29	RES,RK 68RJ 1/10 -CP
R1112	06S45674W29	RES,RK 68RJ 1/10 -CP
R1113	06S45674W29	RES,RK 68RJ 1/10 -CP
R1114	06S45674W29	RES,RK 68RJ 1/10 -CP
R1115	06S45674W29	RES,RK 68RJ 1/10 -CP
R1116	06S45674W33	RES,RK 101J 1/10 -CP
R1118	06S70072F41	RES,CP .331-J-1/4-CP
RA901	06S45591W19	RES,ARY MNR68RJ 4-CP
RA902	06S45591W19	RES,ARY MNR68RJ 4-CP
RA903	06S45591W19	RES,ARY MNR68RJ 4-CP
RA904	06S45591W19	RES,ARY MNR68RJ 4-CP
RA905	06S45591W19	RES,ARY MNR68RJ 4-CP
RA906	06S45591W19	RES,ARY MNR68RJ 4-CP
RA907	06S45591W19	RES,ARY MNR68RJ 4-CP
RA908	06S45591W19	RES,ARY MNR68RJ 4-CP
RA909	06S45591W19	RES,ARY MNR68RJ 4-CP
RA910	06S45591W19	RES,ARY MNR68RJ 4-CP

=======Connectors		
CB902	09T15536Y30	FFC,FH12-30S-0.5S-ED
CB904	09T15536Y10	FFC,FH12-10S-0.5S-E6
CB905	09T15536Y30	FFC,FH12-30S-0.5S-ED

*********SUB P.W.Board**

=======IC		
IC702	51T15194Y01	TC74VHCT08AFT-EL-SE5

=======Coils		
L701	24T25164Y41	IND,FSLM2520 221J-CP
L702	24T95457W18	FBI,BLM21PG221SH1-CP
L703	24T95457W18	FBI,BLM21PG221SH1-CP

=======Filters		
L704	91T15509Y08	EMI,BK1608HM102-CP
L705	91T15509Y08	EMI,BK1608HM102-CP

=======Capacitors		
C701	08T81833F13	CAP,CER 106K-B1C -CP
C702	08T81833F13	CAP,CER 106K-B1C -CP
C703	08T81833F13	CAP,CER 106K-B1C -CP
C705	08T81833F13	CAP,CER 106K-B1C -CP
C706	08T81833F13	CAP,CER 106K-B1C -CP
C707	08T81833F13	CAP,CER 106K-B1C -CP
E701	23T75486W15	CAP,RZ471-1A-R5

=======Resistors		
R701	06S45674W33	RES,RK 101J 1/10 -CP
R702	06S45674W33	RES,RK 101J 1/10 -CP
R703	06S55362Y39	RES,RK JUMPER 1/4-CP
R704	06S45674W33	RES,RK 101J 1/10 -CP
R705	06S55361Y41	RES,RK 101J 1/4-CP

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R706	06S55362Y39	RES,RK JUMPER 1/4-CP
R708	06S55362Y39	RES,RK JUMPER 1/4-CP
R709	06S55361Y41	RES,RK 101J 1/4-CP
R710	06S55362Y39	RES,RK JUMPER 1/4-CP
R711	06S55362Y39	RES,RK JUMPER 1/4-CP
R712	06S55362Y39	RES,RK JUMPER 1/4-CP
R713	06S55362Y39	RES,RK JUMPER 1/4-CP
R714	06S55362Y39	RES,RK JUMPER 1/4-CP
R715	06S45675W43	RES,RK JUMPER1/10-CP
R716	06S55362Y39	RES,RK JUMPER 1/4-CP

=======Connectors		
CB701	09T45391Y20	FFC,IMSA9632S-20Y-E9
CB702	09T45507Y30	FFC,IMSA9631S-30Y-ED
CB703	09T45507Y50	FFC,IMSA9631S-50Y-EQ

*********AMP P.W.Board**

=======Diodes		
D262	48T25593Y01	DIO,S1G-6904-E1
D264	48T25593Y01	DIO,S1G-6904-E1
D266	48T25593Y01	DIO,S1G-6904-E1
D268	48T25593Y01	DIO,S1G-6904-E1

=======Capacitors		
C271	08S65128F88	CAP,CER 104K-B1H -CP
C272	08S65128F88	CAP,CER 104K-B1H -CP
C273	08S65128F88	CAP,CER 104K-B1H -CP
C274	08S65128F88	CAP,CER 104K-B1H -CP
C275	08S65128F88	CAP,CER 104K-B1H -CP
C276	08S65128F88	CAP,CER 104K-B1H -CP
C277	08S65128F88	CAP,CER 104K-B1H -CP
C278	08S65128F88	CAP,CER 104K-B1H -CP

=======Resistors		
R271	06S70072F78	RES,CP .2R2-J-1/4-CP
R272	06S70072F78	RES,CP .2R2-J-1/4-CP
R273	06S70072F78	RES,CP .2R2-J-1/4-CP
R274	06S70072F78	RES,CP .2R2-J-1/4-CP
R275	06S70072F78	RES,CP .2R2-J-1/4-CP
R276	06S70072F78	RES,CP .2R2-J-1/4-CP
R277	06S70072F78	RES,CP .2R2-J-1/4-CP
R278	06S70072F78	RES,CP .2R2-J-1/4-CP

=======Connector		
CH271	09T55053Y13	BTB,IMSA9110S-13 -DB

*********MAIN-LSI P.W.Board**

=======IC's		
IC201	51T55517Y02	NJU7223DL1-33TE1-NE5
IC202	51T55517Y01	NJU7223DL118-TE1-NE5
IC203	51T65169Y01	BD4828G-TR-CP
IC204	51T15191Y01	TC74VHC08FT-EL-SE5
IC301	51T45669Y02	MN103S26EDCUB-QT
IC401	51T55325Y02	MTP,MN102HF73G
IC402	51T25161Y02	M24C08-WDW6T-SE2
IC403	51T55166Y01	NJM2100V-TE2-SE2
IC501	51T45670Y01	AN8703FH-V-QT
IC601	51T55021Y02	BD7905BFS-E2-SEE
IC701	51T65414Y01	NJM2871F33-TE1-CP

=======Transistors		
Q506	48T73888F12	TR ,CP.FMC2-99
Q507	48T55462Y01	TR,2SB1132-QR-100-E2
Q508	48T55462Y01	TR,2SB1132-QR-100-E2

=======Diodes		
SD402	48T95117F01	DIO,CP MA713-CP
SD602	48T95117F01	DIO,CP MA713-CP

=======Crystals		
CL401	91T65422Y02	OSC,CER CSTCG33M2-CP
XL301	91T55217Y08	XTL,NX8045GB 16.9-E5

=======Thermistors		
TH401	48T15688Y01	TMT,SC20-3U104KT -CP
TH402	48T15688Y01	TMT,SC20-3U104KT -CP

=======Coil		
L301	24T25164Y25	IND,FSLM2520 10RJ-CP

=======Capacitors		
C101	08S45676W85	CAP,CER 104K-B1C -CP
C202	08S45676W85	CAP,CER 104K-B1C -CP
C203	08S45676W85	CAP,CER 104K-B1C -CP
C204	08S45676W75	CAP,CER.153K-B1H -CP
C205	08S45676W85	CAP,CER 104K-B1C -CP
C207	08S45676W85	CAP,CER 104K-B1C -CP
C301	08S45676W85	CAP,CER 104K-B1C -CP
C302	08S45676W85	CAP,CER 104K-B1C -CP
C303	08S45676W85	CAP,CER 104K-B1C -CP
C304	08S45676W85	CAP,CER 104K-B1C -CP
C305	08S45676W85	CAP,CER 104K-B1C -CP
C307	08S45676W85	CAP,CER 104K-B1C -CP
C308	08S45676W85	CAP,CER 104K-B1C -CP
C309	08S45676W85	CAP,CER 104K-B1C -CP
C310	08S45676W85	CAP,CER 104K-B1C -CP
C311	08S45676W85	CAP,CER 104K-B1C -CP
C312	08S45676W85	CAP,CER 104K-B1C -CP
C313	08S45676W85	CAP,CER 104K-B1C -CP
C314	08S45676W85	CAP,CER 104K-B1C -CP
C315	08S45676W85	CAP,CER 104K-B1C -CP
C316	08S45676W85	CAP,CER 104K-B1C -CP
C317	08S45676W85	CAP,CER 104K-B1C -CP
C318	08S45677W44	CAP,CER.221J-CH1H-CP
C319	08S45676W85	CAP,CER 104K-B1C -CP
C320	08S45676W73	CAP,CER.103K-B1H -CP
C321	08S45677W12	CAP,CER.10RD-CH1H-CP
C322	08S45677W12	CAP,CER.10RD-CH1H-CP
C328	08S45676W80	CAP,CER 223K-B1E -CP
C330	08S45677W28	CAP,CER 47RJ-CH1H-CP
C331	08S45677W60	CAP,CER 102J-CH1H-CP
C332	08S45676W70	CAP,CER 562K-B1H -CP
C333	08S45677W60	CAP,CER 102J-CH1H-CP
C334	08S45677W60	CAP,CER 102J-CH1H-CP
C335	08S45677W60	CAP,CER 102J-CH1H-CP
C336	08S45676W73	CAP,CER.103K-B1H -CP
C337	08S45676W66	CAP,CER.272K-B1H -CP
C338	08S45677W54	CAP,CER 561J-CH1H-CP
C339	08S45676W65	CAP,CER.222K-B1H -CP

C340	08S45677W48	CAP,CER.331J-CH1H-CP
C345	08S45676W85	CAP,CER 104K-B1C -CP
C346	08S45676W73	CAP,CER.103K-B1H -CP
C347	08S45676W73	CAP,CER.103K-B1H -CP
C348	08S45676W85	CAP,CER 104K-B1C -CP
C351	08S45677W50	CAP,CER 391J-CH1H-CP
C352	08S45677W50	CAP,CER 391J-CH1H-CP
C353	08S45677W36	CAP,CER.101J-CH1H-CP
C355	08S45677W30	CAP,CER.56RJ-CH1H-CP
C356	08S45677W60	CAP,CER 102J-CH1H-CP
C357	08S45677W54	CAP,CER 561J-CH1H-CP
C358	08S45676W85	CAP,CER 104K-B1C -CP
C359	08S45676W85	CAP,CER 104K-B1C -CP
C360	08S45676W85	CAP,CER 104K-B1C -CP
C361	08S45677W60	CAP,CER 102J-CH1H-CP
C362	08S45676W73	CAP,CER.103K-B1H -CP
C363	08S45676W85	CAP,CER 104K-B1C -CP
C364	08S45676W85	CAP,CER 104K-B1C -CP
C365	08S45676W85	CAP,CER 104K-B1C -CP
C401	08S45676W85	CAP,CER 104K-B1C -CP
C402	08S45676W85	CAP,CER 104K-B1C -CP
C403	08S45676W85	CAP,CER 104K-B1C -CP
C404	08S45676W85	CAP,CER 104K-B1C -CP
C405	08S45676W85	CAP,CER 104K-B1C -CP
C406	08S45676W85	CAP,CER 104K-B1C -CP
C407	08S45677W60	CAP,CER 102J-CH1H-CP
C408	08S45676W85	CAP,CER 104K-B1C -CP
C410	08S45676W85	CAP,CER 104K-B1C -CP
C411	08S45676W85	CAP,CER 104K-B1C -CP
C415	08S45676W85	CAP,CER 104K-B1C -CP
C417	08S45676W85	CAP,CER 104K-B1C -CP
C418	08S45676W85	CAP,CER 104K-B1C -CP
C419	08S45676W65	CAP,CER.222K-B1H -CP
C420	08S45676W65	CAP,CER.222K-B1H -CP
C452	08S45676W73	CAP,CER.103K-B1H -CP
C453	08S45677W60	CAP,CER 102J-CH1H-CP
C454	08S45676W73	CAP,CER.103K-B1H -CP
C501	08S45677W34	CAP,CER.82RJ-CH1H-CP
C502	08S45676W85	CAP,CER 104K-B1C -CP
C505	08S45676W85	CAP,CER 104K-B1C -CP
C506	08S45676W85	CAP,CER 104K-B1C -CP
C507	08S45676W85	CAP,CER 104K-B1C -CP
C510	08S45676W68	CAP,CER.392K-B1H -CP
C512	08S45676W85	CAP,CER 104K-B1C -CP
C513	08S45676W85	CAP,CER 104K-B1C -CP
C514	08S45677W54	CAP,CER 561J-CH1H-CP
C515	08S45677W54	CAP,CER 561J-CH1H-CP
C516	08S45676W89	CAP,CER 473K-B1E -CP
C518	08S45677W04	CAP,CER.2R0C-CH1H-CP
C519	08S45676W85	CAP,CER 104K-B1C -CP
C521	08S45676W80	CAP,CER 223K-B1E -CP
C522	08S45676W85	CAP,CER 104K-B1C -CP
C523	08S35349Y12	CAP,CER 105K-B0J -CP
C524	08S35349Y12	CAP,CER 105K-B0J -CP
C525	08S45676W80	CAP,CER 223K-B1E -CP
C526	08S45676W80	CAP,CER 223K-B1E -CP
C528	08S45676W85	CAP,CER 104K-B1C -CP
C604	08S45676W73	CAP,CER.103K-B1H -CP
C606	08S45676W85	CAP,CER 104K-B1C -CP

C702	08S45676W67	CAP,CER.332K-B1H -CP
C703	08S45676W67	CAP,CER.332K-B1H -CP
C704	08S45676W68	CAP,CER.392K-B1H -CP
C705	08S45676W68	CAP,CER.392K-B1H -CP
C706	08S45676W73	CAP,CER.103K-B1H -CP
C712	08S45676W85	CAP,CER 104K-B1C -CP
C800	08T65231Y01	CAP,CER 226K-BJ1A-CP
C801	08T65231Y01	CAP,CER 226K-BJ1A-CP
C802	08T65231Y01	CAP,CER 226K-BJ1A-CP
C803	08T65231Y01	CAP,CER 226K-BJ1A-CP
C804	08T81833F13	CAP,CER 106K-B1C -CP
C806	08T81833F13	CAP,CER 106K-B1C -CP
C807	08T81833F13	CAP,CER 106K-B1C -CP
C808	08T81833F13	CAP,CER 106K-B1C -CP
C809	08T81833F13	CAP,CER 106K-B1C -CP
C810	08T81833F13	CAP,CER 106K-B1C -CP
C811	08T81833F13	CAP,CER 106K-B1C -CP
C812	08T65231Y01	CAP,CER 226K-BJ1A-CP
C813	08T65231Y01	CAP,CER 226K-BJ1A-CP
E202	23S55311W29	CAP,TAN 47R-1A-B -CP
E203	23S55311W28	CAP,TAN 22R-1A-B -CP
E301	23S55311W28	CAP,TAN 22R-1A-B -CP
E503	23S55311W29	CAP,TAN 47R-1A-B -CP
E505	23S55311W29	CAP,TAN 47R-1A-B -CP
E702	23S55311W29	CAP,TAN 47R-1A-B -CP

=======Resistors		
R101	06S45675W43	RES,RK JUMPER1/10-CP
R118	06S45674W17	RES,RK 22RJ 1/10 -CP
R119	06S45674W17	RES,RK 22RJ 1/10 -CP
R120	06S45674W33	RES,RK 101J 1/10 -CP
R121	06S45674W33	RES,RK 101J 1/10 -CP
R122	06S45674W33	RES,RK 101J 1/10 -CP
R123	06S45674W33	RES,RK 101J 1/10 -CP
R124	06S45674W33	RES,RK 101J 1/10 -CP
R125	06S45674W33	RES,RK 101J 1/10 -CP
R126	06S45674W33	RES,RK 101J 1/10 -CP
R127	06S45674W81	RES,RK 103J 1/10 -CP
R129	06S45674W75	RES,RK 562J 1/10 -CP
R131	06S45674W97	RES,RK 473J 1/10 -CP
R132	06S45674W97	RES,RK 473J 1/10 -CP
R133	06S45674W97	RES,RK 473J 1/10 -CP
R200	06S70072F05	RES,CP .10R-J-1/4-CP
R203	06S45675W22	RES,RK 474J 1/10 -CP
R204	06S45674W89	RES,RK 223J 1/10 -CP
R206	06S45675W22	RES,RK 474J 1/10 -CP
R208	06S45674W89	RES,RK 223J 1/10 -CP
R209	06S45674W97	RES,RK 473J 1/10 -CP
R210	06S45674W89	RES,RK 223J 1/10 -CP
R212	06S45674W97	RES,RK 473J 1/10 -CP
R301	06S45674W61	RES,RK 152J 1/10 -CP
R302	06S45674W81	RES,RK 103J 1/10 -CP
R303	06S45674W81	RES,RK 103J 1/10 -CP
R304	06S45674W81	RES,RK 103J 1/10 -CP
R305	06S45675W30	RES,RK 105J 1/10 -CP
R306	06S45674W61	RES,RK 152J 1/10 -CP
R307	06S45674W57	RES,RK 102J 1/10 -CP
R308	06S45675W43	RES,RK JUMPER1/10-CP
R309	06S45674W67	RES,RK 272J 1/10 -CP

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R310	06S45674W97	RES,RK 473J 1/10 -CP
R311	06S45674W69	RES,RK 332J 1/10 -CP
R312	06S45674W69	RES,RK 332J 1/10 -CP
R313	06S45674W69	RES,RK 332J 1/10 -CP
R316	06S45674W85	RES,RK 153J 1/10 -CP
R317	06S45675W30	RES,RK 105J 1/10 -CP
R319	06S45674W75	RES,RK 562J 1/10 -CP
R320	06S45674W75	RES,RK 562J 1/10 -CP
R321	06S45674W81	RES,RK 103J 1/10 -CP
R322	06S45674W97	RES,RK 473J 1/10 -CP
R325	06S45674W89	RES,RK 223J 1/10 -CP
R328	06S15593Y83	RES,RK 273F 1/10 -CP
R329	06S45674W91	RES,RK 273J 1/10 -CP
R330	06S45674W91	RES,RK 273J 1/10 -CP
R331	06S45674W73	RES,RK 472J 1/10 -CP
R332	06S45674W73	RES,RK 472J 1/10 -CP
R333	06S45674W63	RES,RK 182J 1/10 -CP
R334	06S45674W41	RES,RK 221J 1/10 -CP
R336	06S45674W33	RES,RK 101J 1/10 -CP
R337	06S45675W43	RES,RK JUMPER1/10-CP
R338	06S45675W43	RES,RK JUMPER1/10-CP
R339	06S45675W43	RES,RK JUMPER1/10-CP
R340	06S45675W43	RES,RK JUMPER1/10-CP
R345	06S45674W61	RES,RK 152J 1/10 -CP
R350	06S45675W08	RES,RK 124J 1/10 -CP
R351	06S45674W97	RES,RK 473J 1/10 -CP
R352	06S45674W89	RES,RK 223J 1/10 -CP
R355	06S45674W61	RES,RK 152J 1/10 -CP
R356	06S45674W61	RES,RK 152J 1/10 -CP
R357	06S45674W61	RES,RK 152J 1/10 -CP
R360	06S45675W43	RES,RK JUMPER1/10-CP
R402	06S45675W43	RES,RK JUMPER1/10-CP
R403	06S45675W43	RES,RK JUMPER1/10-CP
R404	06S45674W41	RES,RK 221J 1/10 -CP
R405	06S45675W43	RES,RK JUMPER1/10-CP
R406	06S45674W73	RES,RK 472J 1/10 -CP
R407	06S45674W73	RES,RK 472J 1/10 -CP
R408	06S45674W97	RES,RK 473J 1/10 -CP
R409	06S45674W97	RES,RK 473J 1/10 -CP
R410	06S45674W97	RES,RK 473J 1/10 -CP
R411	06S45674W97	RES,RK 473J 1/10 -CP
R412	06S45674W97	RES,RK 473J 1/10 -CP
R413	06S45674W97	RES,RK 473J 1/10 -CP
R414	06S45674W97	RES,RK 473J 1/10 -CP
R415	06S45674W97	RES,RK 473J 1/10 -CP
R416	06S45674W89	RES,RK 223J 1/10 -CP
R418	06S45674W97	RES,RK 473J 1/10 -CP
R419	06S45674W89	RES,RK 223J 1/10 -CP
R421	06S45674W97	RES,RK 473J 1/10 -CP
R422	06S45674W73	RES,RK 472J 1/10 -CP
R423	06S45674W97	RES,RK 473J 1/10 -CP
R424	06S45674W71	RES,RK 392J 1/10 -CP
R425	06S45674W97	RES,RK 473J 1/10 -CP
R426	06S45674W89	RES,RK 223J 1/10 -CP
R427	06S45674W97	RES,RK 473J 1/10 -CP
R428	06S45674W97	RES,RK 473J 1/10 -CP
R437	06S45674W81	RES,RK 103J 1/10 -CP
R438	06S45674W89	RES,RK 223J 1/10 -CP
R439	06S45674W89	RES,RK 223J 1/10 -CP

R440	06S45674W97	RES,RK 473J 1/10 -CP
R442	06S15594Y16	RES,RK 564F 1/10 -CP
R443	06S15593Y73	RES,RK 103F 1/10 -CP
R450	06S45675W43	RES,RK JUMPER1/10-CP
R451	06S45675W43	RES,RK JUMPER1/10-CP
R503	06S45674W91	RES,RK 273J 1/10 -CP
R504	06S45674W91	RES,RK 273J 1/10 -CP
R505	06S15593Y75	RES,RK 123F 1/10 -CP
R506	06S15593Y65	RES,RK 472F 1/10 -CP
R507	06S15593Y85	RES,RK 333F 1/10 -CP
R508	06S45675W43	RES,RK JUMPER1/10-CP
R510	06S45675W30	RES,RK 105J 1/10 -CP
R511	06S45675W30	RES,RK 105J 1/10 -CP
R512	06S45675W30	RES,RK 105J 1/10 -CP
R513	06S45675W43	RES,RK JUMPER1/10-CP
R514	06S45675W43	RES,RK JUMPER1/10-CP
R515	06S45675W43	RES,RK JUMPER1/10-CP
R517	06S45675W06	RES,RK 104J 1/10 -CP
R518	06S45675W06	RES,RK 104J 1/10 -CP
R519	06S45674W57	RES,RK 102J 1/10 -CP
R520	06S45674W57	RES,RK 102J 1/10 -CP
R521	06S45674W31	RES,RK 82RJ 1/10 -CP
R522	06S45674W31	RES,RK 82RJ 1/10 -CP
R524	06S15593Y75	RES,RK 123F 1/10 -CP
R528	06S45675W43	RES,RK JUMPER1/10-CP
R529	06S45675W43	RES,RK JUMPER1/10-CP
R530	06S45675W43	RES,RK JUMPER1/10-CP
R531	06S45675W43	RES,RK JUMPER1/10-CP
R533	06S45674W97	RES,RK 473J 1/10 -CP
R544	06S45674W81	RES,RK 103J 1/10 -CP
R545	06S45674W81	RES,RK 103J 1/10 -CP
R601	06S45674W33	RES,RK 101J 1/10 -CP
R603	06S45674W33	RES,RK 101J 1/10 -CP
R604	06S45674W33	RES,RK 101J 1/10 -CP
R611	06S45674W97	RES,RK 473J 1/10 -CP
R614	06S45674W02	RES,RK 2R7J 1/10 -CP
R615	06S45674W02	RES,RK 2R7J 1/10 -CP
R630	06S45674W33	RES,RK 101J 1/10 -CP
R631	06S45674W33	RES,RK 101J 1/10 -CP
R636	06S45675W45	RES,RK 1R0J 1/10 -CP
R637	06S45675W45	RES,RK 1R0J 1/10 -CP
R638	06S45675W45	RES,RK 1R0J 1/10 -CP
R639	06S45675W45	RES,RK 1R0J 1/10 -CP
R640	06S45674W02	RES,RK 2R7J 1/10 -CP
R641	06S45674W02	RES,RK 2R7J 1/10 -CP
R642	06S45674W02	RES,RK 2R7J 1/10 -CP
R643	06S45674W02	RES,RK 2R7J 1/10 -CP
R644	06S45674W02	RES,RK 2R7J 1/10 -CP
R645	06S45674W02	RES,RK 2R7J 1/10 -CP
R646	06S45674W02	RES,RK 2R7J 1/10 -CP
R647	06S45674W02	RES,RK 2R7J 1/10 -CP
R702	06S45675W24	RES,RK 564J 1/10 -CP
R707	06S45674W49	RES,RK 471J 1/10 -CP
R708	06S45674W49	RES,RK 471J 1/10 -CP
R717	06S45674W49	RES,RK 471J 1/10 -CP
R718	06S45674W49	RES,RK 471J 1/10 -CP
R722	06S35095Y08	RES,RK JUMPER 1/4-CP
R723	06S70072F05	RES,CP .10R-J-1/4-CP
R724	06S70072F05	RES,CP .10R-J-1/4-CP

R725	06S70072F05	RES,CP .10R-J-1/4-CP
R726	06S70072F05	RES,CP .10R-J-1/4-CP
R800	06S45674W97	RES,RK 473J 1/10 -CP
R801	06S45674W97	RES,RK 473J 1/10 -CP
R802	06S45674W97	RES,RK 473J 1/10 -CP
R803	06S45674W97	RES,RK 473J 1/10 -CP
R804	06S45674W97	RES,RK 473J 1/10 -CP
R806	06S45674W97	RES,RK 473J 1/10 -CP
R807	06S45674W97	RES,RK 473J 1/10 -CP
R808	06S45674W97	RES,RK 473J 1/10 -CP
R809	06S45674W97	RES,RK 473J 1/10 -CP
R810	06S45674W97	RES,RK 473J 1/10 -CP
R811	06S45674W97	RES,RK 473J 1/10 -CP
R812	06S45674W97	RES,RK 473J 1/10 -CP
R813	06S45674W97	RES,RK 473J 1/10 -CP
RA101	06S45591W11	RES,ARY MNR22RJ 4-CP
RA102	06S45591W11	RES,ARY MNR22RJ 4-CP
RA103	06S45591W11	RES,ARY MNR22RJ 4-CP
RA104	06S45591W11	RES,ARY MNR22RJ 4-CP
RA105	06S45591W07	RES,ARY MNR101J 4-CP
RA106	06S45591W07	RES,ARY MNR101J 4-CP
RA107	06S45591W02	RES,ARY MNR473J 4-CP
RA108	06S45591W02	RES,ARY MNR473J 4-CP
RA109	06S45591W02	RES,ARY MNR473J 4-CP
RA110	06S45591W02	RES,ARY MNR473J 4-CP

=======Connectors		
CB101	09T45442Y50	FFC,54104-5092-EQ
CB401	09T15107Y16	FFC,52745-1690-E9
CB601	09T15107Y24	FFC,52435-2491-ED
CB602	09T45442Y32	FFC,54104-3292-EQ

*********Miscellaneous**

ANT001	01T15513W35	ASSY,ANT 033RO/561AO
CB201	09T55071W11	CON,TCP9389-11-DT
CB801	09T55175W16	CON,53377-1620
CB901	09T25444Y15	BTB,55323-1511-B
CH571	01T35001Y04	ASSY,UNIZON CONN 33N
CH891	01T25413Y01	ASSY,CONN 2P
ET221	01T15332Y10	ASSY,WIRE RCA N033RO (FRONT OUT/REAR OUT/SUB-W)
ET583	01T35496Y06	ASSY,DIN BVN033RO (TMC/ST-REMO/SPEED SENSOR)
M841	59T55190Y13	MOTOR,F3010CU-12UCV (FAN MOTOR/12V-110mA)
M891	59T65085W01	MOTOR,LOAD FF-050SK (NOSE MOTOR/7V-370mA)
OELD901	01T65442Y01	OELD,UEL10010
SW631	40T15494Y02	SW,DETCT SPVG13-E6 (NOSE OPEN DET)
SW632	40T15494Y01	SW,DETCT SPVG23-E6 (NOSE CLOSE DET)
SW902	40T45305Y01	ENC,EC11E0B2LB-DB (ROTARY ENCODER VOLUME/ FLIPPER-SW/MODE/SEARCH)

*********DV33M010**

HD101	81B51264Y01	PICKUP,ED21A010
M101	59T65140Y01	MOTOR,M1N6GB105E (5V-200mA)
M102	59T65141Y01	MOTOR,F7IHR13 (5V-350mA)
M103	59T65142Y01	MOTOR,MSDV020L01 (DC6.5V)
SW401	40T55230Y01	SW,DETCT ESE13V01CE5 (DISC DETECT L)
SW402	40T55230Y01	SW,DETCT ESE13V01CE5 (DISC DETECT R)
SW403	40T55043Y02	SW,DETCT SPVL12-E5 (12cm DISC RELOAD DETECT)
SW404	40T15494Y01	SW,DETCT SPVG23-E6 (8cm DISC DETECT)
SW405	40T55230Y01	SW,DETCT ESE13V01CE5 (DISC LOAD END DETECT)
SW406	40T15494Y01	SW,DETCT SPVG23-E6 (LIMIT)